
Lebanon Valley College®
Graduate and Undergraduate
CATALOG
2014
2015

TABLE OF CONTENTS

Volume I

Profile of Lebanon Valley College 2
About the Catalog 3
Mission of Lebanon Valley College 3
Accreditation 3
Statement of Non-discrimination and Equal Opportunity 4
Student Consumer Information 5
Undergraduate Information 6
- Admission for Full-time Students 6
- Admission for Part-time Students 6
- Student Finances 7
- Veterans' Services 11

Undergraduate Academic Regulations and Procedures 12
- Degrees 12
- Graduation Requirements 13
- Nontraditional Credit 20
- Grading System 22

Undergraduate Academic Programs 32
- General Education 32
- Cooperative Programs 39
- Pre-professional Programs 40
- Self-Designed Major 43
- Internships 44
- Independent Study 45
- Tutorial Study 45
- Special Topics Courses 45
- Study Abroad and Off-Campus Programs 45

Undergraduate Departments and Programs 47
Post-Baccalaureate Certificate and Credential Programs 105
Graduate Academic Programs 109
Index 121
2014–2015 Academic Calendar 124

LEBANON VALLEY COLLEGE

Founded: 1866, as a private coeducational institution on the site of the Annville Academy. Became a four-year institution by 1883 as the lower grades were phased out.

Curriculum: a four-year program of study in the liberal arts with an academic year comprised of fall and spring semesters and an optional summer term.

Degrees granted: Bachelor of Arts, Bachelor of Music, Bachelor of Science, Bachelor of Science in Chemistry, Bachelor of Science in Medical Technology, Master of Business Administration, Master of Music Education, Master of Science Education, Doctor of Physical Therapy

Major fields of study: accounting, actuarial science, American studies, art & art history, biochemistry & molecular biology, biology, business administration, chemistry, computer science, digital communications, criminal justice, economics, early childhood education, English, French, German, global studies, health care management, historical communications, history, mathematics, medical technology, music, music business, music education, music recording technology, philosophy, physical therapy, physics, politics, psychobiology, psychology, religion, sociology, Spanish, special education

Special programs: secondary education certification; *in cooperation with The Pennsylvania State University and Case Western Reserve University:* engineering; *in cooperation with approved hospitals:* medical technology

Special options: departmental honors, double majors, independent study, self-designed majors, internships, tutorial study, study abroad, Philadelphia and Washington, D.C., semester programs

Number of full-time faculty: 106; of the permanent faculty, 91 percent have earned a Ph.D. or equivalent terminal degree

Student-faculty ratio (FTE): 12:1, with an average class size of 20

Location: Annville, founded in 1799, is a small town of approximately 5,000 people located in south central Pennsylvania. Driving times: Hershey, 10 minutes; Harrisburg, 1/2 hour; Baltimore, 2 hours; Philadelphia, 2 hours; New York, 3 hours; Washington, D.C., 3 hours

Size of campus: 58 buildings. The library contains more than 216,000 cataloged items and also provides access to more than 164,000 electronic books.

Residence halls: 28 residential facilities housing 1,276 students in male, female, coed, suite, and apartment-style facilities.

Student enrollment: 1,648 full-time undergraduate students, with 118 part-time undergraduates and 256 graduate students.

Student financial aid: approximately 97 percent of full-time students receive financial aid in the form of LVC grants and academic scholarships. In 2013–2014, these awards totaled $26,350,483 with the average per student totaling $16,418.

ABOUT THE CATALOG

Attendance at Lebanon Valley College is a privilege, not a right. To provide the necessary atmosphere in which teaching and learning can occur, the College expects that the conduct of all campus citizens will conform to accepted standards. The College has the right to require the withdrawal of any student whose actions are inimical to the purposes of the institution. The regulations provided in this catalog are announcements and do not constitute a contract between the student and the College. The College reserves the right to change these regulations and procedures as it deems necessary for the accomplishment of its purposes, but wherever possible, a student will proceed to graduation under the regulations in effect at the time of his or her entrance at the College.

THE MISSION OF THE COLLEGE

Lebanon Valley is a small, private, liberal arts college. Its mission arises directly from its historical traditions and a relationship with the United Methodist Church.

The College's aim is to enable our students to become people of broad vision, capable of making informed decisions, and prepared for a life of service to others. To that end, we seek to provide an education that helps students acquire the knowledge, skills, attitudes, and values necessary to live and work in a changing, diverse, and fragile world.

Through both curricular and co-curricular activities, we endeavor to acquaint our students with humanity's most significant ideas and accomplishments, to develop their abilities to think logically and communicate clearly, to give them practice in precise analysis and effective performance, and to enhance their sensitivity to and appreciation of differences among human beings.

Lebanon Valley College aspires to pursue this mission within a community in which caring and concern for others is a core value. We value strong and nurturing faculty interacting closely with students; encourage individual student development; and affirm the interrelatedness of liberal learning and the ideal of vocation. We regard the cultivation of wisdom that is the capacity of judging rightly in matters of life and conduct, and a lifelong love of learning as the ultimate reward of the educational experience.

ACCREDITATION

Lebanon Valley College is accredited by the Middle States Commission on Higher Education, 3624 Market Street, 2nd Floor West, Philadelphia, Pa. 19104; telephone: 267-284-5000.

Lebanon Valley College is also approved by the Pennsylvania Department of Education.

The following programs have been granted specialized accreditation: the Doctor of Physical Therapy degree program by the Commission on Accreditation

in Physical Therapy Education; accounting, business, and economics programs by the Accreditation Council for Business Schools and Programs; music programs by the National Association of Schools of Music; and chemistry programs by the American Chemical Society.

Lebanon Valley College is on the approved list of the Regents of the State University of New York and of the American Association of University Women.

Lebanon Valley College is a member of the following: American Association of Colleges; National Association of Independent Colleges and Universities; Pennsylvania Foundation for Independent Colleges; College Entrance Examination Board; College Scholarship Service; Council of Independent Colleges; National Collegiate Athletic Association; Middle Atlantic States Collegiate Athletic Conference; Eastern College Athletic Conference.

NOTICE OF NON-DISCRIMINATION AND EQUAL OPPORTUNITY

Lebanon Valley College does not discriminate on the basis of race, color, national origin, ancestry, religion/creed, sex, pregnancy, sexual orientation, or gender identity or expression, age, disability, genetic information, or veteran status in its programs and activities as required by Title IX of the Educational Amendments of 1972, the Americans with Disabilities Act of 1990, Section 504 of the Rehabilitation Act of 1973, Title VII of the Civil Rights Act of 1964, and other applicable statutes and/or College policies. Lebanon Valley College prohibits discriminatory harassment and sexual harassment, including sexual violence and any type of sexual misconduct.

The following person has been designated to handle inquiries regarding the Americans with Disabilities Act, the Rehabilitation Act, Title VII, and related statutes and regulations: Ann C. Hayes, Director of Human Resources, Humanities 108-C, Lebanon Valley College, 101 N. College Avenue, Annville, PA 17003-1400, 717-867-6416, hayes@lvc.edu.

The following person has been designated to handle inquiries regarding the non-discrimination policies and to serve as the overall Campus Coordinator for purposes of Title IX compliance: Ann C. Hayes, Director of Human Resources, Humanities 108-C, Lebanon Valley College, 101 N. College Avenue, Annville, PA 17003-1400,717-867-6416, hayes@lvc.edu.

The following individuals have been designated as Deputy Title IX Coordinators:

- Ann E. Damiano, Associate Dean of Academic Affairs, Humanities 201-A, Lebanon Valley College, 101 N. College Avenue, Annville, PA 17003-1400, 717-867-6078. damiano@lvc.edu.
- Robert L. Mikus, Associate Dean of Student Affairs, Center for Student Engagement, Mund College Center, Lebanon Valley College, 101 N. College Avenue, Annville, PA 17003-1400, 717-867-6863, mikus@lvc.edu.

- Stacey Hollinger, Asst. Athletic Director/Head Coach, Lebanon Valley College Athletics, Arnold Sports Center, 101 N. College Avenue, Annville, PA 17003-1400, 717-867-6891, sholling@lvc.edu.

Inquiries concerning the application of anti-discrimination laws may be referred to the Title IX Coordinator or Deputy Coordinators identified above or to the Office for Civil Rights, United States Department of Education. For further information on notice of nondiscrimination, visit http://wdcrobcolp01.ed.gov/CFAPPS/OCR/contactus.cfm for the address and phone number of the U.S. Department of Education office that serves your area, or call 1-800-421-3481.

STUDENT CONSUMER INFORMATION

LVC makes available a wealth of consumer information to current and prospective students and their families in accordance with the 2008 Higher Education Opportunity Act (HEOA) and the Student Right-to-Know Act. Visit our student consumer information website for a list of the materials available, including graduation rates and outcomes, financial and loan information, health and safety information, and more: www.lvc.edu/about-lvc/consumer-information.aspx.

UNDERGRADUATE INFORMATION

Admission for Full-time Students

High School Preparation

All admission candidates should have completed 16 credit units in a college preparatory program and graduated from an accredited secondary school, or present an equivalency certificate (G.E.D.). Of the 16 units, 4 should be in English, 2 in foreign language, 3 in mathematics, 3 in science, and 3 in social studies.

Application Procedure

A candidate for admission to Lebanon Valley College must submit a completed application with the application fee and an official transcript of high school grades. Submission of S.A.T. or A.C.T. results is optional. Students wishing to transfer to Lebanon Valley College must submit official transcripts of completed postsecondary work and a College Record Form for each institution attended, in addition to a final high school transcript.

Candidates are encouraged to visit campus for a personal interview. Applicants for admission to certain academic programs (music and physical therapy majors) are required to undergo additional steps. Students are encouraged to view additional details and use the online application documents located at the Admission link on our home page, www.lvc.edu. For further information, contact:

Admission Office
Lebanon Valley College
101 North College Avenue
Annville, Pa. 17003–1400
Phone: 717-867-6181 or 1-866-LVC-4ADM
FAX: 717-867-6026
Internet: http://www.lvc.edu
Email: admission@lvc.edu

Admission for Part-time Students

Students may enroll part time in any undergraduate degree program or certificate offered at Lebanon Valley College through the Office of Graduate & Professional Studies. Students are considered part time if they are enrolled in 1-11 credit hours per semester. The following undergraduate degree-completion programs can be completed primarily through evening or online courses: accounting, business administration, health care management, psychology, and self-designed.

Part-time students enrolled through the Office of Professional Studies may register for courses offered during the day, evening, Saturday, and summer sessions at any Graduate & Professional Studies location. To obtain copies of course schedules or to get detailed information on all academic programs for part-time students, call 717-867-6213 or 1-877-877-0423 (toll free), email gps@lvc.edu, or visit www.lvc.edu/gps.

Candidates for admission must submit a completed application form (paper or online at www.lvc.edu/gps) with the requested application fee. An official

high school transcript is required if students have fewer than 24 semester hours of transferable college credits. Students planning to transfer to Lebanon Valley College must submit official transcripts of all completed college or university courses for acceptance and transfer evaluation. Transcripts must be sealed and mailed to the Office of Graduate & Professional Studies, 101 North College Ave. Humanities 107, Annville, PA, 17003. Unofficial transcripts may be reviewed for conditional acceptance and preliminary transfer credit. Official transcripts relating to military or professional experience also may be evaluated for possible transfer credit. For transfer credit and Prior Learning Assessment credit guidelines, see pages 13-14 and 20-21, respectively. On receipt of a completed application form, essay, interview (phone, virtual, or in-person), high school and/or college transcripts, application materials will be reviewed for admission to the College. A minimum GPA of 2.0 is required for acceptance; GPA of 2.5 is preferred (any exceptions may require references). New students must speak to an enrollment advisor who will assist them with course registration for the first semester. To arrange an admission interview with an enrollment advisor, call 717-867-6213 or 1-877-877-0423 (toll free), or email gps@lvc.edu. Campus tours may also be arranged upon request.

Student Finances

Payment for tuition, room, board, and other charges is due by a published deadline prior to the beginning of each semester. Students failing to meet this deadline will be required to make special arrangements with the Business Office before their course registrations will be processed. Questions about charges and payments should be addressed to the Business Office.

Refund Policy for Full-time Students

Treatment of Title IV (Federal) Aid When a Student Withdraws

For a student who withdraws after the 60 percent point-in-time, there are no unearned funds. However, a school must still complete a return calculation in order to determine whether the student is eligible for a post-withdrawal disbursement. The calculation is based on the percentage of earned aid using the following Federal Return of Title IV funds formula:

> Percentage of payment period or term completed = the number of days completed up to the withdrawal date divided by the total days in the term. (Any break of five days or more is not counted as part of the days in the term). This percentage is also the percentage of earned aid.

Funds are returned to the appropriate federal program based on the percentage of unearned aid using the following formula:

> Aid to be returned = (100 percent of the aid that could be disbursed minus the percentage of earned aid) multiplied by the total amount of aid that could have been disbursed during the payment period or term.

If a student earned less aid than was disbursed, the institution would be required to

return a portion of the funds and the student would be required to return a portion of the funds. Keep in mind that when Title IV funds are returned, the student borrower may owe a debit balance to the institution. If a student earned more aid than was disbursed to him/her, the institution would owe the student a post-withdrawal disbursement which must be paid within 120 days of the student's withdrawal. The institution must return the amount of Title IV funds for which it is responsible no later than 45 days after the date of the determination of the date of the student's withdrawal.

Refunds are allocated in the following order:

- Unsubsidized Federal Stafford Loans
- Subsidized Federal Stafford Loans
- Federal Perkins Loans
- Federal Parent (PLUS) Loans
- Federal Pell Grants for which a Return of funds is required
- Academic Competitiveness Grants for which a return of funds is required
- National Smart Grants for which a return of funds is required
- Federal Supplemental Opportunity Grants for which a return of funds is required
- Federal TEACH Grants for which a return of funds is required

There are some Title IV funds that you were scheduled to receive that you cannot earn once you withdraw because of other eligibility requirements. For example, if you are a first-time, first-year undergraduate student and you have not completed the first two weeks of your program before you withdraw, you will not earn any Stafford Loan funds that you would have received had you remained enrolled past the second week. If you receive (or Lebanon Valley College or your parent receive on your behalf) excess Title IV program funds that must be returned, Lebanon Valley College must return a portion of the excess equal to the lesser of: 1) your institutional charges multiplied by the unearned percentage of your funds, or 2) the entire amount of excess funds.

The school must return this amount even if it didn't keep this amount of your Title IV program funds. If Lebanon Valley College is not required to return all of the excess funds, you must return the remaining amount. Any loan funds that you must return, you (or your parent for a PLUS Loan) repay in accordance with the terms of the promissory note. That is, you make scheduled payments to the holder of the loan over a period of time.

Any amount of unearned grant funds that you must return is called an overpayment. The amount of a grant overpayment that you must repay is half of the unearned amount. You must make arrangements with Lebanon Valley College or the Pennsylvania Department of Education to return the unearned grant funds.

NOTE: The federal government requires that all full-time students make satisfactory academic progress toward a degree or certificate. Please visit http://www.lvc.edu/financial-aid/ to view the Academic Progress Policy and Requirements.

Treatment of Non-Title IV Aid When a Student Withdraws

Lebanon Valley College follows guidelines for Title IV programs (see above) when calculating the amount of institutional and/or state aid and/or private loans/scholarships that you have earned up to the point of withdrawal. Types of aid covered by this policy include, but are not limited to: Presidential Scholarships (such as Vickroy, Leadership and Achievement Awards), LVC Grant-In-Aid, institutional scholarships, PHEAA State Grant, and/or any other state administered grant funds.

When you withdraw during your period of enrollment, the amount of non-Title IV assistance that you have earned up to that point is determined by the same specific formula used to calculate Title IV funds earned. If you receive more assistance than you earned, the excess funds must be returned by Lebanon Valley College and/or you.

Once you have completed more than 60 percent of the period of enrollment, you earn all the assistance that you were scheduled to receive for that period.

Treatment of Institutional Charges When a Student Withdraws

Lebanon Valley College follows guidelines for Title IV programs (above) when calculating the amount of unearned institutional charges to be refunded. Charges eligible for refund are tuition, room, board*, private music lessons, and overload charges. Once a student has completed more than 60 percent of the period of enrollment, he or she has earned all of the charges billed for that period.

*All Gold-, Silver-, and Bronze-level meal plans for Annville students include $50 flex dollars to be used in LVC dining facilities. If a student withdraws prior to the semester end, LVC will refund unused flex dollars. In the case of student withdrawal, the $50 flex dollars will be considered separate from the remainder of the board plan for refund purposes.

Standard Term Part-Time Students—Refunds

Full tuition is refunded if withdrawal notification is received before the second day of class. Full tuition is refundable if the course is cancelled by the College. See the current refund table as posted on the Graduate & Professional Studies tuition and fees website for specific dates for partial refunds. Students receiving federal financial assistance (Title IV) and who are enrolled in traditional term courses will receive a refund according to federal policy as noted above.

Non-Standard Term Part-Time Students—Refunds

Students enrolled in one or more non-term courses (modules) and no courses span the entire semester also follow federal policy with the following clarifications:

- If a student fails to complete all modules scheduled for a semester, the student is considered a withdrawal at the time the student ceases attendance.
- If a student withdraws from a module but indicates in writing to the College that he or she will attend a later module during the same semester, the student is not considered a withdrawal. If the student fails to attend the later module, the date of withdrawal reverts to the original withdrawal from the prior module. The later module will be included in the period of enrollment.

- Without written confirmation of the student's intent to attend a later module in the same semester, a student who withdraws from a module or has ceased attendance is considered a withdrawal.
- If a student begins but fails to complete the final module(s) in a semester, the student is considered to have withdrawn.
- If a student receives a failing grade for the final module (s) in a semester, the College must determine if the student ceased attending and is therefore considered a withdrawal.
- The Return of Title IV Funds calculation process will begin as soon as possible after it is determined that a student has withdrawn or ceased attendance. The institution must return the amount of Title IV funds for which it is responsible no later than 45 days after determining the date of the student's withdrawal. If the student returns for a later module in the payment period, the Return of Title IV Funds will be reversed.

Alternative Payment Plan

Lebanon Valley College offers a payment plan for those families who, after exploring other options, prefer to spread payments over a 10-month period. An agent has been appointed to process deferred payment applications:

Higher Education Services
4720 Carlisle Pike
Mechanicsburg, PA 17050
Phone: 1-800-422-0010

Veterans' Services

Servicemembers Opportunity Colleges

Lebanon Valley College has been designated as an institutional member of Servicemembers Opportunity Colleges (SOC), a group of more than 400 colleges providing post-secondary education to members throughout the world. As an SOC member, Lebanon Valley College recognizes the unique nature of the military lifestyle and has committed itself to easing the transfer of relevant course credits, providing flexible residency requirements, and crediting learning from appropriate military training and experiences.

Veterans Benefits

Students receiving educational benefits provided by the Department of Veterans Affairs (DVA) must report their enrollment to the Financial Aid Office when registering each semester or summer session. The Financial Aid Office will then submit certification of enrollment to the DVA. Students should complete the FAFSA and the financial aid process each year according to the school's requirements and deadlines. *Please be advised that Lebanon Valley College reserves the right to decrease institutional aid awarded to students receiving military and veterans' benefits according to school policy*. Students receiving EAP and/or FTA benefits are responsible for applying for these benefits through their unit of assignment prior to the start of each semester or summer session and for submitting all necessary forms to the Financial Aid Office.

Students participating in the Yellow Ribbon Program must maintain Satisfactory Academic Progress (SAP) in order to be eligible to receive Yellow Ribbon Program matching payments.

Students must notify the Financial Aid Office immediately if they change the number of credits for which they are enrolled, withdraw, or request a leave of absence. Failure to do so may result in a charge to the student from the DVA for overpayment of benefits. For more information on veterans benefits, please visit the LVC financial aid web page at www.lvc.edu/military.

UNDERGRADUATE ACADEMIC REGULATIONS AND PROCEDURES

Degrees

Baccalaureate Degrees

Lebanon Valley College confers five baccalaureate degrees. Bachelor of Arts for students completing requirements in the following major programs: art & art history, criminal justice, economics, English, French, German, global studies, historical communications, history, music, music business, philosophy, politics, religion, sociology, Spanish, and certain self-designed majors.

Bachelor of Science for students completing requirements in the following major programs: accounting, actuarial science, biochemistry & molecular biology, biology, business administration, chemistry, computer science, cooperative engineering, digital communications, early childhood education, health care management, mathematics, music education, physics, psychobiology, psychology, and certain self-designed majors. Bachelor of Science in Chemistry, Bachelor of Science in Medical Technology, and Bachelor of Music: emphasis in music recording technology for students completing requirements for the appropriate major program.

Privacy of Student Records

The Family Educational Rights and Privacy Act of 1974 (FERPA), also known as the Buckley Amendment, helps protect the privacy of student records. The Act provides for the right to inspect and review educational records, to seek to amend those records, and to limit disclosure of information from the records. The Act applies to all institutions that are the recipients of federal funding.

Annually, Lebanon Valley College informs students of the Family Educational Rights and Privacy Act of 1974, as amended. This Act, with which the institution intends to comply fully, was designated to protect the privacy of education records, to establish the right of students to inspect and review their education records, and to provide guidelines for the correction of inaccurate or misleading data through informal and formal hearings.

Students also have the right to file complaints with the FERPA office concerning alleged failures by the institution to comply with the act.

The policy can be found online at www.lvc.edu/registrar/ferpa.aspx. Questions concerning the Family Educational Rights and Privacy Act may be referred to the Registrar's Office.

Credit Hours

A credit hour is the unit to measure academic progress. Each course has a credit designation approximately equal to the number of hours to be spent in class each week. A course requiring three hours of class attendance each week will carry 3 credit hours. Credit for laboratories is generally awarded at one half the regular rate.

Application for Graduation

As a student nears completion of the degree requirements, the student must file an application for the degree and a graduation plan with the Registrar's Office. Graduation application deadlines and the semester Course List and Registration Schedule are available in that office. This application process provides the student with a timely opportunity to review his or her degree requirements and to plan or change the student's course schedule to ensure completion of all requirements.

The student must complete an Application for the Degree and a Graduation Plan, meet with his or her advisor, obtain all required signatures for graduation, including major and minor requirements, and deliver the forms to the Registrar's Office in the Humanities Building.

Graduation Requirements

Candidates for a baccalaureate degree shall complete successfully 120 credit hours, including the requirements for the general education program (see page 32) and the requirements for majors and minors as appropriate. Credit hours are accumulated in three separate categories: general education requirements, major requirements, and electives.

The general education program is that part of the curriculum shared by all students in all majors. The required courses reflect 54–56 credit hours. The major programs each require at least 30 credit hours of course work. Electives are those courses selected by the student that reflect neither major nor general education requirements.

Candidates for the bachelor's degree must also take in residence 30 credit hours of the 36 taken immediately prior to graduation. Course work taken in all of the College's programs qualifies as work done in residence.

For first bachelor degrees, no more than 12 credits from student teaching (ECE 440, ECE 441, MED 441, MED 442, SED 440, and SPE 441) and internships combined may be counted.

Candidates for a degree must obtain a cumulative grade point average of at least 2.00 and a major grade point average of at least 2.00. Additional majors and any minors also require a 2.00 grade point average.

Students who have 11 or fewer credits remaining to complete the degree may participate in the graduation ceremony.

Advising Program

Each student has a faculty advisor whose role is to counsel about registration procedures, course selections, academic requirements, and regulations. The student is expected to obtain the advisor's counsel and approval before registration, withdrawal, election of pass/fail option, and/or change in credit/audit status.

Arrangement of Schedules

Each student arranges a semester program of courses in consultation with his or her faculty advisor. Students already in attendance do this during registration periods. New students accomplish this on orientation days.

Limit of Hours

To be classified as full time, a student must take at least 12 credit hours in a semester. Seventeen credit hours is the maximum permitted without approval from the student's advisor and permission of the registrar. To be permitted to take more than 17 credits, the student should have a cumulative grade point average of 3.0 or higher, or be a senior. Audited courses are counted in determining the course load, but music organizations are not. Students shall pay the prevailing tuition rate for each credit hour beyond 17 (not counting music organizations).

Class Standing

Students are classified academically at the beginning of each year. Membership in the sophomore, junior, or senior classes is granted to students who have earned a minimum of 28, 56, or 84 credit hours respectively.

Satisfactory Academic Progress

Satisfactory academic progress toward a degree as a full-time student is defined as completion of 24 or more credits per academic year while maintaining a cumulative grade point average of 1.6 (1–27 credits), 1.7 (28–55 credits), 1.8 (56–83 credits), 1.9 (84 or more). A 2.0 grade point average is required for completion of the baccalaureate degree. It is also necessary for full-time students to complete at least 24 credits per academic year in order to maintain eligibility for federal, state, and institutional financial aid.

Transfer Credit

A student applying for advanced standing after having attended another accredited institution shall send an official transcript to the Admission Office. If requested, the student must provide copies of the appropriate catalogs for the years of attendance at the other institution or institutions.

Credits are accepted for transfer provided the grades are C– (1.67) or better, the work is equivalent or similar to work offered at Lebanon Valley College, and the institution is regionally accredited. Grades thus transferred count for credit hours only, not for quality points.

A candidate for admission holding an associate degree from a regionally accredited college can be admitted with full acceptance of course work at the previously attended institution. However, course work in the major field for which the applicant has received a D shall not be counted toward fulfilling the major requirement.

Because Lebanon Valley College is a liberal arts institution, consideration of full acceptance of the associate degree will be granted with the understanding that the candidate has followed a basic course of study compatible with the curriculum and academic programs of the College and has been enrolled in a transfer program. A total of 60 credits will be accepted for an associate degree and 57 credits for a diploma program. A maximum of 90 credit hours will be accepted toward a baccalaureate degree.

In most instances the applicant may be expected to complete the baccalaureate

degree within two years. However, when the requirements of a particular major field or the nature of the previous study demand additional work beyond two years, the applicant will normally be notified at the time of admission.

Students transferring to Lebanon Valley College in order to complete work on a baccalaureate degree will normally be expected to pass at least one 3-hour course in their intended major for each semester they spend at the College. "Semester" shall normally be defined as 15 credit hours. Beyond this minimum requirement, departments may require additional courses if they so desire.

Lebanon Valley College students enrolled for a degree may not carry courses concurrently at any other institution without prior consent of their advisors and the registrar. Students who desire to study away from campus for summer study must obtain prior approval from their advisors and the registrar.

Discontinuance of Courses

The College reserves the right to withdraw or discontinue any course.

Registration and Preregistration

Students are required to register for courses on designated days of each semester. Preference is given to upper-class students in the preregistration process to ensure registration in courses required for their major fields of study. Students desiring to register later than one week after the opening of the semester will be admitted only by special permission of the instructor and the registrar.

On entering Lebanon Valley College, students indicate that they are open or that they have a particular intended major. Students may make a formal declaration of major during the second semester of their freshman year and must make a formal declaration by the time they have completed 60 credit hours.

Change of Registration

Change of registration, including pass/fail elections, changes of course hours credit, changes from credit to audit and vice versa, must be approved by signature of the advisor. In most instances, registration for a course shall not be permitted after the course has been in session for one full week. With the permission of the advisor, a student may withdraw from a course during the first 10 weeks of the semester. However, first-time, first-semester freshmen may withdraw from a course at any time through the last day of semester classes with permission of the advisor. A fee is charged for every course added at the student's request after the publicized Add/Drop Period (the first full week of classes).

Students who drop below full-time status (below 12 credits) during the Add/Drop Period will be re-billed as part-time students. Resident students who drop to part-time *must* have the permission of the associate dean of student affairs. Other considerations regarding financial aid, academic progress, and health insurance must be made before dropping to part-time status.

Students who drop courses after the publicized Add/Drop Period will not have their status changed to part-time. However, consideration must be given to academic progress and future eligibility for financial aid and scholarship monies.

Students enrolled in courses meeting during the summer or for an abbreviated period during fall and spring semesters may drop a course before the second class meeting. Thereafter, students may withdraw from a course up to the first two-thirds of the course.

Auditing Courses

Students may register to audit courses with the approval of their academic advisor. Audited courses are counted in considering the course load relative to the limit of hours and may result in an overload charge. No grade or credit is given for an audited course, but the registrar will record the audit on the transcript if the student attends regularly. A change of registration from credit to audit or from audit to credit, with the approval of the instructor, must be accomplished by the end of the 10th week of semester classes.

Pass/Fail

After attaining sophomore standing (28 credit hours), a student may elect to take up to two courses per semester and one per summer session on a pass/fail basis; however, only six such elected courses can be counted toward graduation requirements. In addition to courses elected to be pass/fail, students are permitted to count courses designated as pass/fail, which are required within a major or minor. With the exception of courses that are designated pass/fail, no courses elected by students to be taken pass/fail may be used to meet the requirements of the general education program or other programs, the major(s), the minor(s) or secondary education certification. A student may select or cancel a pass/fail registration any time during the first 10 weeks of a semester, or up to the first two-thirds of a course meeting during the summer or for an abbreviated period during fall and spring semesters. Passing with honors will be designated by the grade PH indicating that a grade of B+ or higher was earned. If a student does not pass the course, the student will receive an F on the transcript. See page 22 for grading systems.

Repetition of Courses

A student may repeat as often as desired, for a higher grade, a previously taken course, subject to the following provisions: the course must have been taken in courses staffed by the College, the course has to be retaken at Lebanon Valley College, and the semester credit hours are given only one time. The higher grade received each time taken is computed in the cumulative grade point average. Each semester grade report will show hours credit each time passed, but the total hours toward a degree will be equal only to the semester hours credit for the course. For a course previously passed P/F, the grade received in the subsequent registration for regular grade is the "higher grade." Each grade received remains on the permanent record and a notation is made thereon that the course has been repeated.

Concurrent Courses

A student enrolled for a degree at Lebanon Valley College may not carry courses concurrently at any other institution without prior consent of his or her advisor and the registrar.

External Summer Courses

A student registered at Lebanon Valley College may not obtain credit for the courses taken during the summer at another college unless such courses have prior approval of his or her advisor and the registrar.

Attendance Policy

At Lebanon Valley College, the academic program is the centerpiece of the student's experience. Commitments to one's academic program take priority over other obligations, College-sponsored or otherwise. Regular attendance at all courses is essential to academic success. It is the student's responsibility to attend class and to be accountable for all work missed in the event of being absent from class. Faculty are not obligated in any way whatsoever to make special arrangements for any student who is absent from class.

Specific class attendance policies are determined by individual faculty members. These may include regulations regarding tardiness. Faculty members have the right to reduce a student's final course grade based on his or her attendance. Each individual faculty member's attendance policy—and the consequences students face when exceeding the allotted number of absences—must be clearly stated in the course syllabus and explained to students on the first day of class. Academic departments may also have an attendance policy, particularly one regarding practicums, student teaching or clinical experiences.

Excused Absences

An excused absence is defined as an absence for which a student is not penalized. It is possible, but not guaranteed, for a student to be excused from class when participating in an authorized College activity, such as field trips, athletic competitions, performances, and departmental or College events. The faculty member of the academic class from which the student will be absent has discretionary authority to grant or not grant the excusal. In general, student attendance at academic classes has priority over other College functions.

When faculty require attendance at class sessions or events outside of students' regularly scheduled academic classes, the faculty member must provide alternative methods of fulfilling the assignment for students who are legitimately unable to participate.

Faculty planning class trips or other activities resulting in student absences from classes in other courses must provide each participating student, as far in advance as possible, with a written request for excusal, which students are then expected to present to their other instructors. The request must detail the nature of the event, date(s), and times, the names of participating students, and include the signatures of the instructor(s) and the instructor must also notify the registrar. Sponsors of co-curricular events (aside from semester-long sports events), must follow this process as well.

Sports rosters are issued team by team at the beginning of each semester, with the names of participating students, the dates of the athletic contests, and requested excusal times listed on each roster. Unscheduled games will be announced through

the Athletic Department. Students are responsible for requesting class excusals for any athletic events. Athletic practices do not warrant a request for class excusal.

In all cases, when a student is absent from class—whether the absence is excused or not—the student remains responsible for all and any work missed. When requests for excused absences are granted, the faculty member may stipulate when and in what manner the missed work must be completed by the student.

If attendance requirements conflict, the vice president of academic affairs and dean of the faculty will mediate.

Long-Term Absences

A long-term absence from a class may severely impact a student's ability to complete a course successfully.

Notifications. In the event that a student will be absent for more than one calendar week during the 15 week semester or two class days during accelerated courses, he or she should notify the assistant dean for advising and student success, who will facilitate communication among key personnel at the College. The student should also contact his or her faculty. Assuming it is possible, the student should indicate to both the faculty and the assistant dean the dates he or she will be absent.

Administrative Withdrawal. A long-term absence from a class or classes may result in administrative withdrawal from the course or the College. In a traditional, 15 week semester, a student will be administratively withdrawn with a grade of "W" after three calendar weeks or three class days during accelerated courses. This is assuming the deadline to withdraw has not passed.

Departmental policies, particularly those pertaining to a clinical or practicum experience, take precedence over the College's generalized policy on long-term absences. Students should consult the Student Handbook for their academic programs in order to familiarize themselves with the department's attendance policy.

In-Absentia

The College treats students in domestic or foreign study programs as students-in-absentia. Any student who studies for a semester or academic year at another institution with the intent of returning to the College is considered a matriculated student. A student desiring in-absentia status should complete the form in the Registrar's Office and secure the approval of the advisor, the registrar, and the director of global education and domestic programs. Students will receive information on registration and room sign-up after they notify the registrar of their address abroad or in the United States.

Leave of Absence

For reasons of health or other compelling circumstances, students may request a voluntary leave from the College for the duration of one or two semesters. The option to take a leave of absence is usually available to students who have attended classes past the add/drop period of their first semester. Prior to the end of the drop/add period, new students should contact the Admission Office to learn what their options are for re-enrollment.

A student desiring a leave of absence should complete the form available from the Registrar's Office, indicate their anticipated date of return, and secure the approval of the associate dean of academic affairs. This form must be returned to the Registrar's Office by 4:30 p.m. on the last day of classes in order for the leave of absence to take effect that term. Students who have stopped attending classes but failed to complete the leave of absence application and secure the official approval for the leave will be administratively withdrawn from the College.

Students on leave are regarded as continuing students and retain their status for registration, residency, assuming rooms are available, and merit scholarships. For all other forms of financial aid, the student should contact the Financial Aid Office directly.

When they are ready to return to the College, students should contact their academic advisor to register, as well as other offices needed to facilitate their return. Students who do not provide due notice (60 days) of a change in the date of expected return will be administratively withdrawn from the College and must petition the associate dean for formal readmission.

Withdrawal from College and Readmission

To withdraw from the College, a student must complete an official withdrawal form obtained from the Registrar's Office. Part-time students may secure this form from the Office of Graduate & Professional Studies. Submission of this form to the Registrar's Office means that the student has authorized the Registrar's Office to drop his/her classes for any upcoming terms. If a student withdraws during the semester, classes will be dropped after the withdrawal form has been submitted.

The withdrawal form must be returned to the Registrar's Office by 4:30 p.m. on the last day of classes in order for the withdrawal to take effect during the semester. A decision to withdraw must be made before any final grades are recorded. Final grades submitted by the faculty will not be converted. Oral notification of a withdrawal does not constitute a formal withdrawal.

Students who officially withdraw from the College after the add/drop period will receive grades of W on their transcripts.

Students who withdraw and later return to the College have forfeited their merit scholarships. Readmission of a student requires written permission from the associate dean of academic affairs.

Emergency Withdrawal or Medical Leave of Absence

Depending on the circumstances, the College reserves the right to immediately withdraw a student from the College. Such action will be taken only when a student demonstrates the inability to continue as a student or presents an immediate danger to self or others. Such action will be the responsibility of the vice president of student affairs and dean of students, or his or her designee, in consultation with other members of the College professional staff. After an emergency withdrawal or medical leave of absence, an evaluation supporting return is required and must be submitted to the vice president of student affairs and dean of students, or his or her designee. Such clearance includes full written documentation from the attending psychologist or

psychiatrist to the vice president of student affairs and dean of students substantiating competency to return to the demands of the College environment, and documentation setting forth what follow up treatment is required, if any. The student may not return to campus without this documentation. Additionally, the student is required to meet with the vice president of student affairs and dean of students, or his or her designee, prior to finalizing re-enrollment responsibilities.

Second Bachelor's Degrees

A person who has earned a bachelor's degree from Lebanon Valley College or another accredited college or university may earn a second bachelor's degree by meeting the following requirements:

1. A minimum of 30 additional undergraduate credits must be completed successfully at Lebanon Valley.
2. All graduation requirements for the major of the second degree must be met satisfactorily.
3. Course work completed successfully as part of the first degree program may be used to satisfy the graduation requirements of the second major.
4. No course already taken in the first degree program may be repeated in the second degree program.
5. No more than three credits from student teaching (ECE 440, ECE 441, MED 441, MED 442, SED 440, SPE 441) and internships combined may be counted toward a second degree. To ensure maximum flexibility, if both degrees are completed at LVC, a maximum of 15 credits internships/student teaching may be counted between the two degrees.
6. Graduates from other accredited colleges or universities shall not be required to meet any general education requirements of Lebanon Valley College.
7. No courses in the second degree program may be met satisfactorily through such non-traditional means as challenge examinations, CLEP, or credit for life experience.
8. No courses in the second degree program may be taken pass/fail.

NOTE: Students carrying a second major do not automatically receive a second degree. Student carrying a second major will not receive a second degree without having met all the requirements listed above for a second bachelor's degree.

Undergraduate Nontraditional Credit

Lebanon Valley College recognizes the ability of highly motivated students to master specific areas of study on their own initiative and provides programs to allow these students the opportunity to gain credit. Except for those seeking a second bachelor's degree, any matriculated student may earn a maximum of 30 credits toward a bachelor's degree through nontraditional means (challenge exams, advanced placement, CLEP, and credit for life experience). All nontraditional means of examination are graded satisfactory (S) or unsatisfactory (U). An unsatisfactory grade on any nontraditional examination will not be recorded on the permanent record.

Challenge Exam Policy

Many LVC courses can be challenged for credit by examination. Students should request challenge examinations through their academic advisors. All requests must be approved by the registrar and the chairperson of the department in which the course is listed.

Challenge exams are considered comprehensive examinations in the subject area. The grading criteria for challenge exams will be determined by each department. The exact nature of the examination will be determined by the faculty member and chairperson of the department involved and may include any means of evaluation normally employed by the department. There is a fee for preparation and grading of each challenge exam, and it is charged without regard to the test results.

Challenge exams may not be taken by students who have received any grade in a course equivalent to or more advanced than the course for which the student is requesting credit by examination. Challenge exams may not be used for the purpose of acquiring credit for a course previously failed. Practicums, internships, seminars, research courses, independent study, writing-intensive courses, and courses with laboratory components are normally not subject to credit by examination. Individual departments may have additional criteria regarding challenge exams. Consult the chairperson of the department in which the course is listed for specific information.

Advanced Placement Policy

Advanced placement with credit in appropriate courses will be granted to entering students who make scores of 4 or 5 on College Board Advanced Placement examinations. The official Advanced Placement *College Grade Report* must be submitted by the student for evaluation by the registrar.

Advanced Placement without credit may be granted on the basis of the Achievement Tests of the College Board examinations or such other proficiency tests as may be determined appropriate by the registrar and by the chairperson of the department.

CLEP (College Level Examination Program) Policy

Credit shall be granted to those students who score well on CLEP examinations that are approved by the College. To receive credit, a student must score above the 50th percentile on the objective section and above a C, as determined by the appropriate academic department for general and subject examinations. The English composition essay is required to receive credit for English Communications with a minimum score of 64 and at the 80th percentile for this CLEP examination. Credit for foreign language at the intermediate level requires a minimum score of 62 (for French), 63 (for German), and 66 (for Spanish) on Level 2 tests.

A maximum of six credits shall be awarded for each examination; of these credits, only three may be applied to the general education requirements in the appropriate area. Credit shall be granted only to students who have matriculated at Lebanon Valley College. Normally, requests for CLEP credit must be approved by the registrar before the student has completed 30 credits.

Credit for Life Experience Policy

Lebanon Valley College provides for the awarding of undergraduate academic credit for knowledge acquired through nonacademic experience in subjects in the College curriculum. The experience should have a direct relation to the material taught in a course in the College curriculum and should extend over a sufficient period to provide substantive knowledge in the relevant area. Matriculated students who believe they qualify for such credit may petition the appropriate department through their academic advisors. Part-time students must petition through the Office of Graduate & Professional Studies. This petition must:

(1) detail the relevant experience in question;

(2) provide appropriate supporting evidence;

(3) note the equivalent College course by department and number; and

(4) state the number of credit hours sought.

The appropriate department will consult with the academic advisor or the Office of Graduate & Professional Studies to determine the best means (interview, examination, portfolio, etc.) for evaluating the experience.

Approval of experiential credit for full-time students must be made in writing over the signatures of the academic advisor, the appropriate department chair, and the associate dean of academic affairs. Approval of experiential credit for part-time students must be made in writing over the signatures of the associate dean of graduate & professional studies, the appropriate department chair, and the associate dean of academic affairs.

Experiential credit cannot exceed 6 credit hours in one academic year and cannot exceed a maximum of 12 credit hours in the degree program.

International Baccalaureate Program

Credit for appropriate courses will be granted to entering students who achieve scores of 5, 6, or 7 on International Baccalaureate individual subject examinations. The official International Baccalaureate transcript must be presented by the student for evaluation by the registrar.

Grading Systems and Grade Point Averages

Student work is graded A (excellent), B (good), C (satisfactory), D (requirements and standards met a minimum level), F (course requirements not met). For each credit hour in a course, students receive the following quality points:

A	4.00	C	2.00
A–	3.67	C–	1.67
B+	3.33	D+	1.33
B	3.00	D	1.00
B–	2.67	D–	.67
C+	2.33	F	.00

F carries no credit or quality points, but grades of F are used in calculating the grade point averages. The cumulative grade point average is calculated by dividing the quality points by the credit hours completed.

Candidates for a degree must obtain a cumulative grade point average of 2.00 and a major grade point average of 2.00. Additional majors and any minors also require a 2.00 grade point average.

A student may not take a course that has a prerequisite course he or she has failed. In addition to the above grades, the symbols I, IP, and W are used. I indicates that the work is incomplete (certain required work postponed by the student for substantial reason with the prior consent of the instructor) but otherwise satisfactory. This work must be completed within the first four weeks of the end of the course or the I will be converted to an F. Instructors may set an earlier deadline. Appeals for an extension of the incomplete grade past the four-week period must be approved by the instructor and presented to the registrar prior to the incomplete due date. IP (in progress) is a temporary grade for certain courses that have not concluded by the end of the semester. W indicates withdrawal from a course through the 10th week of semester classes (or up to the first two-thirds of course meeting during the summer or for an abbreviated period during fall and spring semesters), except for first-semester freshmen who may withdraw through the last day of the semester.

Once a grade has been recorded it may not be changed without the approval of the instructor and the registrar. Students who feel the grade may be inaccurate must contact the instructor within 30 days from the end date of the course in question.

Grievances Filed by Students against Faculty Members Concerning Final Grades

A student may file a grievance against a faculty member if the student has sufficient reason to dispute a final grade earned in a course.

Initial Steps

- The student must first contact his/her instructor to question the disputed grade. This must be done in writing and must take place as soon as possible, but no later than 30 days after the end of the course in which the concern originated. The student may seek the support of his/her academic advisor, or other faculty person, in preparing this written communication.
- If the matter is not resolved, the student should arrange a meeting with the instructor to review the grade. If agreement is reached, the matter is settled. Otherwise, the student may proceed to Mediation.

Mediation

- Within 10 days of completing the initial steps, the student shall send a written request to the faculty member's chair, outlining the basis of the grade appeal and requesting a meeting. A copy of this communication must be provided to the instructor by the chair. The department chair will schedule a meeting with the student, the chair, and the instructor. If an agreement is reached at this level, the problem is resolved and no further action needs to be taken. If no agreement is reached, the student may elect to proceed to an appeal. In the event that the grade appeal is directed against the chair, the process proceeds without mediation directly to an appeal.

Appeal

- Within 10 days of completing mediation, the student will send to the associate dean of academic affairs (ADAA) a written request to have the case heard by an Appeals Board. The associate dean will, within 14 calendar days of receiving the written request, convene an Appeals Board which will serve for the term of the appeal in question. The board will be made up of two faculty members and one member of the student body. The ADAA will serve as chair of the Appeals Board, as a non-voting member, is responsible for documenting the events of the hearing and appointing the two faculty members. The student will be selected by the associate dean of student affairs (ADSA). Both the student and the instructor involved in the appeal must be present at the entire hearing, excluding deliberations. Each may be assisted during the hearing by an advisor from current students, faculty, administration, or staff. This individual serves in an advisory capacity only. He or she may not actively participate in the hearing.
- The Appeals Board shall have 72 hours from the time it is convened to make a decision. Both the student and the faculty member are to be notified in writing of the board's decision. The decision of the Appeals Board is final.

Records

The Appeals Board is the final source of appeal and will also serve as repository of records which are kept of the grievance. After the dissolution of the board a repository of grievance records will be kept in the Registrar's Office.

Academic and Graduation Honors

The Dean's List

The Dean's List recognizes undergraduate students for outstanding academic achievement during each semester. Students achieving a 3.40 or higher grade point average while carrying at least 12 credit hours for grade (excluding courses taken pass/fail) shall be named to the Dean's List at the end of each semester. Students with any incomplete grades will not be awarded Dean's List. If, when all incompletes are resolved, the student meets the Dean's List criteria, he/she may submit a request to be added to the Dean's List through the Registrar's Office.

Graduation Honors

After completing a minimum of 60 calculated credit hours of residence work, a student may qualify for graduation honors. The honors to be conferred are *summa cum laude* for grade point averages of 3.75–4.0, *magna cum laude* for grade point averages of 3.60–3.74, and *cum laude* for grade point averages of 3.40–3.59.

Departmental Honors

All major programs provide the opportunity for departmental honors work during the junior and senior years. For specific information, interested students should contact the appropriate department chairperson. The minimal requirements for departmental honors are a cumulative GPA of at least 3.0, both at the time of application and at the time of graduation; a written thesis; an oral presentation; and approval by a majority vote of the full-time members of the department. This project

is undertaken on a subject of the student's own choosing under the supervision of a faculty advisor. Opportunity also exists to do creative work. A maximum of 9 hours credit may be earned in departmental honors.

Honor Societies

Alpha Kappa Delta

Alpha Kappa Delta is the international sociology honor society. Students who maintain a 3.0 average in sociology and a 3.3 average overall are eligible to be inducted into the honor society at a ceremony during their senior year. Inducted students will be awarded a teal honor cord to be worn at Commencement.

Alpha Sigma Lambda

Alpha Sigma Lambda is a national honor society whose aim is to recognize the special achievements of professional studies students who accomplish academic excellence while facing completing interests of home and work. To become a member, students must be at least 22 years old, a matriculated student seeking an initial degree, completed 24 credits at LVC, and have a minimum 3.2 overall GPA.

Beta Beta Beta

Beta Beta Beta, a national biological honor society, is open to majors in the biological sciences by invitation. To become a member, one must have completed three courses in biology with a GPA of 3.0 in biology and 3.0 overall.

Delta Alpha Pi

Delta Alpha Pi is an international honor society for students with disabilities. Established in 2004, Delta Alpha Pi presents an opportunity to change negative perceptions of persons with disabilities by recognizing those with exemplary academic records. Undergraduate candidates must have completed a total of 24 credits and earned a cumulative average of 3.10.

Gamma Sigma Epsilon

Gamma Sigma Epsilon is a national honor society for students achieving high standards of excellence in the study of chemistry.

Kappa Delta Pi

Kappa Delta Pi is an international honor society for education students dedicated to promoting excellence in the profession through the advancement of scholarship, leadership, and service. Membership is open to students who have completed at least 30 credit-hours with a minimum of 12 credits in professional education courses. Leadership abilities and a cumulative GPA of 3.6 are also required.

Phi Alpha Epsilon

Phi Alpha Epsilon (the Greek initial letters of the words, "lover of learning and finder of truth"), the College's honor society, was established in 1935 and recognizes academic achievement and service to others. To be eligible for his award, students must achieve a cumulative grade-point average of at least 3.60, complete at least 24 credits of general education coursework at LVC, and achieve the "bronze" level of

service hours (as determined by the Office of Spiritual Life) at the conclusion of the fall semester prior to graduation. Ordinarily, seniors are formally welcomed into the society at a spring banquet.

Phi Kappa Pi

Phi Kappa Pi, LVC's honor society in business, is open to business, accounting, and economics majors. Selection is made by Business Department faculty. Membership is open to those with junior or senior status and a department GPA of 3.40 or higher and a College GPA of 3.25 or higher. Candidates for membership must also exhibit participation in department, College, or community activities demonstrating leadership and non-academic involvement.

Phi Sigma Iota

Phi Sigma Iota is an international honor society that recognizes outstanding ability in the field of language studies, literature, and cultures. It promotes international communication and understanding and is the highest academic honor in the field of languages. Selection is made by languages faculty. Members are selected from language majors and minors with a department GPA of 3.00 or higher and a College GPA of 3.00 or higher.

Phi Sigma Tau

Phi Sigma Tau is the international honor society for philosophy, dedicated to encouraging interest and activity among students and to promote ties between philosophy departments in accredited institutions. Eligibility requirements include the completion of three full semesters and at least two philosophy courses and a 3.5 GPA in philosophy classes. Inducted students must rank in the upper 35 percent of their class.

Pi Mu Epsilon

Pi Mu Epsilon is a national honor society dedicated to the promotion of mathematics and the recognition of students who successfully pursue mathematical understanding.

Pi Sigma Alpha

Pi Sigma Alpha is the honor society for politics. Members qualify for graduate school scholarships in politics and tuition reductions for certain Washington internship programs. Undergraduate candidates must have completed 60 credits, at least 10 of which are in politics, and earned a grade point average of 3.4 or higher.

Psi Chi

Affiliated with the American Psychological Association, Psi Chi is the national honor society for students who are psychology or psychobiology majors or psychology minors. Students must have a College and departmental GPA of 3.20 or higher.

Sigma Iota Rho

Sigma Iota Rho is an honor society for global studies. It promotes and rewards scholarship and service among students of international and global studies. Members must be of junior standing, have completed at least 21 credits toward a major or minor in global studies, and participated in an approved study abroad program. A 3.4 grade point average in global studies is required.

Sigma Pi Sigma

The national physics honor society, Sigma Pi Sigma, recognizes outstanding scholarship in physics and promotes an attitude of service. Members must have completed 45 credit hours, 12 credits of physics coursework, and have at least a 3.5 GPA for physics courses and for cumulative course grades. All members must rank in the upper third of their college class.

Sigma Tau Delta

Sigma Tau Delta, an international English honor society, is open to junior and senior English majors who achieve a major and cumulative GPA of 3.5 and obtain faculty approval.

Theta Alpha Kappa

Theta Alpha Kappa is the only national honor society in the fields of religious studies and theology. Members must have completed three full semesters with a minimum of 12 credits in religion. A GPA of at least a 3.5 in religion courses is also required, as is a 3.0 cumulative GPA. Inducted students must rank in the upper 35 percent of their class.

Academic Honesty

Lebanon Valley College expects its students to uphold the principles of academic honesty. Violations of these principles will not be tolerated. Students shall neither hinder nor unfairly assist the efforts of other students to complete their work. All individual work that a student produces and submits as a course assignment must be the student's own.

Cheating and plagiarism are acts of academic dishonesty. Cheating is an act that deceives or defrauds. It includes, but is not limited to, looking at another's exam or quiz, using unauthorized materials during an exam or quiz, colluding on assignments without the permission or knowledge of the instructor, and furnishing false information for the purpose of receiving special consideration, such as postponement of an exam, essay, quiz, or deadline of an oral presentation.

Plagiarism is the act of submitting as one's own the work (the words, ideas, images, or compositions) of another person or persons without accurate attribution. Plagiarism can manifest itself in various ways: it can arise from sloppy, inaccurate note-taking; it can emerge as the incomplete or incompetent citation of resources; it can take the form of the wholesale submission of another person's work as one's own, whether from an online, oral, or printed source. The seriousness of an instance of plagiarism—its moral character as an act of academic dishonesty—normally depends on the extent to which a student intends to deceive and mislead the reader as to the authorship of the work in question. Initially, the instructor will make this determination.

In the unfortunate event of an alleged breach of academic honesty, a student will be assured due process as follows:

- No later than three weeks after the instructor's observation of academic dishonesty, the instructor will present to the student (orally or in writing) the specific charge with all supporting documentation. Documentation should include the nature of alleged academic dishonesty, a description of the incident, and the evidence supporting the charge. At the moment the work has been submitted, the student involved forfeits the right to withdraw from the course or to change his or her course status in any way.
- Following this notification, the instructor will meet with the student and permit the student to respond to the charge with factual information and mitigating circumstances related to the charge. If circumstances prohibit a face-to-face meeting (as might be the case if the incident occurs at the end of a semester), the student may respond to the charges via email.
- If the instructor concludes that the student is culpable of academic dishonesty, the instructor shall report the suspected incident to the associate dean of academic affairs.
- Information related to the offenses of academic dishonesty must be passed by the faculty member to the associate dean who shall retain the information for as long as the student involved is enrolled at the College. Information and evidence concerning academic dishonesty are the property of the College.
- The associate dean and the student charged with academic dishonesty will meet in a closed session to review the charges and the supporting evidence. Following this meeting, the associate dean shall send the student a formal correspondence describing the consequences of this offense and any further offenses.
  - For the first offense of academic dishonesty, the instructor has the option of implementing whatever grade-related penalty he or she deems appropriate, up to and including failure in the course.
  - For the second formally established offense of academic dishonesty, failure in the course is warranted; the associate dean shall so notify the faculty member(s) involved. Additionally, the associate dean has the authority to take further action against the student, up to and including suspension or expulsion from the College.
  - For the third formally established offense of academic dishonesty, failure in the course and removal from the College are warranted. Removal may take the form either of suspension for one or two semesters or permanent expulsion.
- The associate dean has the authority to determine whether actions by a student constitute "offenses of academic dishonesty" as described previously.
- The student may appeal the determination of academic dishonesty within ten (10) business days following the date of the decision sent to the student from the associate dean. Failure by the student to appeal within the limited time period constitutes a waiver of the student's right to appeal.

- The appeal must be made in writing and forwarded to the vice president of academic affairs and dean of the faculty (VPAA/dean of the faculty). An appeal will be awarded given either of the following conditions:
  - The College's policies and procedures were not followed by the instructor;
  - Significant and new evidence supporting the student's defense was discovered after the hearing.
- The VPAA/dean of the faculty will assemble an Appeals Committee, consisting of two members of the teaching faculty and one member of the student body. The VPAA/dean of the faculty will appoint one of the two faculty members to serve as chair of the Appeals Committee. The Appeals Committee has the authority to: (a) affirm or reverse the findings and actions of the instructor and the associate dean, and; (b) reduce or moderate the associate dean's decision on suspension or expulsion. The Appeals Committee does not have the authority to change a grade decision. Findings will be communicated in writing to the student, the instructor, the associate dean, and the VPAA/dean of the faculty.
- The chair of the Appeals Committee will consult with both the student and the instructor to schedule an appeals hearing. Both the student and the instructor will be given at least two days' notice of the date, time, and place of the hearing. Both the student and the instructor must be present at the hearing. The student may be assisted during the appeals hearing by an advisor of choice from among the current full-time students, faculty, administration, or staff, but may not be assisted during the appeals hearing by anyone else. The selected individual may function in an advisory capacity only. He or she may not actively participate in the appeals hearing.
- The student will be informed in writing of the committee's decision within 24 hours following the appeals hearing.

Academic Probation and Suspension

At the conclusion of each semester, the Dean's Academic Advisory Council meets to review the academic performance of all undergraduate students. The members of the council are the vice president of academic affairs and dean of the faculty, the vice president of student affairs and dean of students, the associate dean of academic affairs, the assistant dean of academic advising and student success, and the registrar.

To maintain themselves in good academic standing at the College, students must achieve minimum cumulative grade point averages appropriate to progress toward their degree, and they must complete coursework at a regular and sustained pace. Minimum cumulative GPAs are as follows:

Semester Hours Completed	Required Cumulative GPA
1–27	1.60
28–55	1.70
56–83	1.80
84 or more	1.90

At the conclusion of each semester, the College examines students' academic records. Students who have not achieved the above minimum grade point averages will be given an **Academic Warning,** placed on **Probation,** or **Academically Suspended** from the College.

Academic Warning. The first time students fall below the required cumulative GPA as listed above, they will be given Academic Warning. Academic Warning constitutes a formal notification that a student's academic performance is weak and that he or she needs to devote increased attention to academic work. Students receiving Academic Warning are cautioned that unless they achieve an acceptable cumulative grade point average, they will be placed on Probation and thereby lose the privilege of participating in extracurricular activities (including such activities as intercollegiate sports, student government, campus media, student clubs, and Greek and service organizations).

Probation. Students who fall a second time below the required cumulative GPA (whether in consecutive or nonconsecutive semesters) will be placed on Probation. A student on Probation will not be permitted to take part in extracurricular activities.

Final Probation. Students who fall a third time below the required cumulative GPA (whether in consecutive or nonconsecutive semesters) will be placed on Final Probation. A student on Final Probation will not be permitted to take part in extracurricular activities, and the student will be informed that unless the student restores himself or herself to good academic standing and maintains that status, the student will be suspended from the College.

Academic Suspension. Students will be suspended academically from the College when (1) they fall a fourth time below the required cumulative GPA (whether in consecutive or nonconsecutive semesters); (2) they fail to achieve a cumulative GPA of at least 0.75 at the conclusion of any semester; (3) they have not earned by the conclusion of the second and subsequent semesters of full-time enrollment a total of at least 6 credit hours of coursework for each semester completed. Students suspended for academic reasons will not be permitted to return for at least the full subsequent semester (fall or spring).

In the event of an academic suspension, a student may appeal the decision and will be assured due process as follows:

- No later than ten (10) business days following the date of the letter informing the student that he/she has been suspended, the student may appeal the decision. Failure to appeal within the limited time period constitutes a waiver of the student's right to appeal.
- The appeal must be made in writing to the associate dean of academic affairs. An appeal will be awarded given the following conditions:
  1. a change was made to a student's grade in a course, and this change occurred prior to the start of the semester for which the student was suspended;
  2. severe mitigating circumstances sufficiently documented by an authority contributed to the student's poor academic performance.

- The associate dean of academic affairs will assemble an Appeals Committee, consisting of at least two members of the Dean's Academic Advisory Council and one member of the faculty. The associate dean of academic affairs will serve as the chair of the Appeals Committee. The Appeals Committee has the authority to affirm or reverse the decision to suspend the student.
- The chair of the Appeals Committee will consult with the student and members of the assembled committee to schedule a hearing. All persons will be given at least two business days' notice of the date, time, and place of the hearing. The student must be present at the hearing to present his or her case to the committee.
- The student may be assisted during the hearing by an advisor of choice from among current full-time students, faculty, administration, or staff, but may not be assisted during the hearing by anyone else. The selected individual may function in an advisory capacity only. He or she may not actively participate in the appeals hearing. If the student has documentation from an authoritative source, the committee will review that material as well.
- Within 24 hours following the appeals hearing, the committee's decision will be communicated in writing to the student, the student's advisor, the registrar, the vice president of academic affairs and dean of the faculty, and the vice president of student affairs and dean of students. The decision of the Appeals Committee is permanent and final.

To request reinstatement following a suspension, students must submit a written petition to the associate dean of academic affairs. On reinstatement to the College, a student will have two semesters to bring up his or her cumulative GPA to the minimum required for good academic standing at the College. A suspended student who returns to the College and who is suspended again for academic reasons will be regarded as permanently separated from the College.

UNDERGRADUATE ACADEMIC PROGRAMS

General Education Program

The College's commitment to the ideals of liberal learning, commonly referred to as General Education, is realized in curricular and co-curricular experiences that develop the knowledge, competencies, and attitudes typically associated with a liberal arts undergraduate education. General Education prepares learners for citizenship in a rapidly changing, diverse and fragile world. It further prepares them for more specialized education in graduate or professional schools.

Consistent with the Essential Learning Outcomes established by the Association of American Colleges and Universities, a general education at LVC aims to have students:

1. Expand their knowledge of human culture and the physical and natural world,
2. Enhance their intellectual and practical skills, and
3. Develop personal and social responsibility.

In order to ensure the breadth of a liberal arts education and expose learners to diverse disciplines, students are required to complete coursework in communications, intercultural studies, disciplinary perspectives, and liberal studies, those academic disciplines that have served as a foundation for undergraduate education at Lebanon Valley College for nearly 150 years.

Student Learning Outcomes

Knowledge

- Students will demonstrate, interpret, and apply knowledge of fundamental concepts, methods, and content in disciplines central to liberal learning.
- Students will synthesize knowledge and integrate learning to coursework and experiential opportunities.

Intellectual and Practical Skills

- Students will communicate effectively in both writing and speech.
- Students will accurately interpret representations of quantitative data and create truthful representations to deepen understanding and inform debate and decision-making.
- Students will critically analyze and evaluate information, ideas, issues, and artifacts.
- Students will design, evaluate, and implement problem-solving strategies and propose plausible solutions.
- Students will find and use information from a variety of credible, authoritative sources.
- Students will analyze and evaluate ethical norms and perspectives.

Intercultural Literacy and Competence

- Students will recognize and negotiate differences and relationships among individuals, groups, and institutions in a multicultural and global society.

Program Requirements

The program consists of coursework in the following four areas:

Communications. 15 credit hours.

English Communications (2 courses)
Writing Process (3 courses)

This component recognizes the central role communication plays in learning and in life. Courses teach the principles of clear and effective communication and provide opportunities to practice and refine them throughout a student's college career.

English Communications [EC]. Courses provide instruction in the elements of English composition and provide a wide range of opportunities for students to practice and sharpen their writing abilities. Courses also teach the related skills of speaking, reading, and critical thinking. ENG 112 provides a foundation in the skills essential to information literacy, i.e., the ability to find, evaluate, and make effective use of source material relevant to a research topic.

Requirement: ENG 111 or FYS 100; ENG 112.

First-year students must fulfill the communications component of the General Education Program by enrolling in either First-Year Seminar (FYS 100) or English Communications I (ENG 111). The primary goal of each course is to help first-year students become college-level writers. Students will be assigned the same amount of writing in both FYS 100 and ENG 111. An important difference between the two courses is that each FYS class is organized around a particular topic, and students will write in response to various aspects of that topic, whereas ENG 111 is not organized around a particular topic, so its students can expect to write essays about a variety of different topics. Students in FYS should expect to do more reading than students in ENG 111.

Writing Process [WP]. In addition to English Communications, students must complete three courses designated Writing Process, preferably one each during the sophomore, junior, and senior years.

Approved courses: AMS 223, 229; ART 214, 312, 316, 320, 328, 351; BIO 304, 307, 312, 322, 324; BUS 285, 485; CHM 230, 321, 322; DCOM 280, 281, 380, 382, 384, 385, 387; DSP 335, 340, 370; ECE 335, 340; ECN 230, 332, 410; EDU 450; ENG 126, 150, 213, 315, 334, 341, 342, 351, 352, 451; FRN 310, 405, 440, 450, 480; GLB 499; GMN 310, 330, 410, 460, 480; HIS 206, 207, 215, 217, 226, 250, 310, 312, 315, 499; LAW 215, 316, 499; MBS 371; MED 334; MSC 201; PHL 210, 229, 230, 270, 301, 311, 345, 349, 417, 499; PHY 328; POL 207, 245, 312, 313, 314, 316, 345, 499; PSY 211, 245, 443; REL 230, 280, 311, 313, 499; SOC 311, 324, 331, 499; SPA 310, 431, 440, 445, 450, 480; SPE 250.
Criteria for Writing Process courses:

- Course teaches students to write according to the conventions and expectations of a particular discipline.
- Writing will be taught as a process, beginning with thinking about (and perhaps

conducting research on) a topic, then articulating a tentative thesis or hypothesis, drafting an outline, and working through successive drafts of an essay before arriving at the finished product.

- Faculty will offer instruction in writing and will provide substantive written or oral feedback on students' written performance during the writing process.
- Evaluation of writing quality shall be an important factor in determining the course grade.
- Students in writing process courses will write a minimum of 3,000 words in formal writing (i.e. case studies, discipline specific documents). In-class examinations and quizzes, laboratory notebooks, journals, diaries, and essays of fewer than 500 words may count toward the final course grade, but shall not count toward the 3,000-word minimum requirement. Exception: A course taught in a language other than English shall be held to the 3,000-word minimum requirement, but shall be permitted to count reflections, journals, and in-class writings as part of the writing process.
- The number of students in a writing-process course shall be capped at a level no higher than 22 students.
- Equivalent courses to those approved below taken at other institutions may not necessarily include a writing component and therefore will not automatically satisfy the WP requirement. Students who wish to meet the Writing Process requirement off-campus must petition the associate dean of academic affairs for approval.

Intercultural Knowledge. 9–12 credit hours.

One to two courses in a language other than English.
One Intercultural Diversity course.
One American Social Diversity course.

This component responds to a contemporary world in which communication, travel, and trade increasingly juxtapose cultures, values, and ideas. Courses help students understand, interpret, and appreciate cultural, social, moral, economic, and political systems different from their own.

Language Requirement. By learning another language, students see the world from a different linguistic and cultural perspective, and increase their awareness of their own language and culture. In a globalized world the ability to understand and appreciate cultural differences is imperative. These courses help students understand that all languages have similarities and differences, but that each language offers insight into the culture of a particular community.

Requirement: One of the following options, subject to high school language study and placement test.

- FRN, GMN, GRK, ITA, LAT, SKT, or SPA 101/102
- FRN, GMN, SPA 102/201*
- FRN, GMN, or SPA 201/202
- One FRN, GMN, or SPA course at the 300 level or higher

High School Study	Placement Test Level	Required Language Sequence
None or no language study for six full years	100 or none	101/102
	200	102/201* or 201/202
	300 or higher	One 300 or higher level course
1–2 years in Grades 9–10 or 1 year in Grades 11–12	100	101/102
	200	102/201* or 201/202
	300 or higher	One 300 or higher level course
2 years in Grades 11–12	100	102/201* or 201/202
	200	201/202
	300 or higher	One 300 or higher level course
3 or more years	100	201/202
	200	201/202
	300 or higher	One 300 or higher level course

**102/201 option requires the permission of the chair of the Languages Department.*

Language Placement Test: Students who meet any the following conditions are required to take the placement test:

- All students who, in six years prior to enrollment at LVC, have completed at least one year of French, German, or Spanish in high school, or at least one semester in college even if they are considering beginning study in a new language
- Native speakers of French, German, or Spanish
- Students in whose home French, German, or Spanish is the primary language

If a student chooses to take a level lower than the level indicated by these guidelines, up to 6 hours of elective credit can be granted. If a student would like to take a level higher than that indicated by the placement test, they should consult with a faculty member in the Languages Department. For more information regarding the placement test, please visit www.lvc.edu/languages.

Transfer Students: Transfer students who have completed a two semester (6-credit minimum) language sequence at another institution, subject to LVC's transfer policy, will be considered to have satisfied the language requirement, regardless of placement or high school language study. For the purposes of this requirement, transfer students are those who, after graduating from high school, have attended another college or university for at least one semester prior to enrolling at LVC.

Exemptions: The language requirement may be waived, with permission from the chair of the Languages Department, for a foreign national (typically one who holds a student visa) who has grown up in a non-English speaking culture and successfully completed secondary school work taught in a language other than English. Official certification from the school of the language of instruction and completion of the TOEFL exam for entry into LVC will be required. Students who have competence in a language other than English and do not meet these requirements are encouraged to take the CLEP test (see CLEP section of this catalog) or another appropriate test approved in advance by the chair of the Languages Department and the registrar.

Students with significant language-based learning disabilities or auditory disabilities (e.g., auditory processing deficits or deaf/hard of hearing), as verified by the Center for Disability Resources, will be permitted to substitute Intercultural Diversity courses for required language courses.

Intercultural Diversity [ID]. Courses increase students' global awareness by introducing them to important aspects of societies in Asia, Africa, the Middle East, and Latin America to foster an understanding of cultural, social, political, religious, or economic systems outside the European tradition.

This requirement may be met through one of the following options:

1. Successful completion of one course from the approved list below.
2. Complete the language requirement at the intermediate level (201/202) or higher. Note: Entering students who score a 4 or 5 on the AP language exam in Spanish, French, or German must complete either one 300-level Language course or one Intercultural Diversity course. Students who score a 4 or 5 on the AP literature exam in Spanish, French, or German must complete one Intercultural Diversity course.
3. Participate in a semester-long study-abroad program or complete approved course work that involves substantial on-site immersion in a foreign culture. For this option, the restriction to cultures "outside the European tradition" is waived.

Approved courses: ART 116; FRN 360; GMN 305; HIS 275, 303, 304, 305; MSC 202; PHL 140; POL 210; REL 140, 200, 204, 252, 253, 255; SPA 360.

Criteria for Intercultural Diversity courses:

- At least two-thirds of the content of these courses shall be devoted to studies of non-western cultures. This requirement does not apply to study abroad programs described in the third option above.
- Courses that involve comparisons of aspects of western and non-western societies or address factors that influence culture in non-western societies (e.g., geography, climate, environment, natural resources) are eligible as long as these other considerations are clearly subordinate to the primary goal of understanding different cultures.

American Social Diversity [AD]. Courses focus on the social diversity in the United States and allow students to engage critically the issues—such as race, gender, class, sexual orientation, religion—that historically have divided and defined Americans. Students who participate in semester-long programs in Philadelphia or Washington, D.C., sponsored by the Center for Global Education will be considered to have fulfilled the American Social Diversity requirement.

Approved courses: AMS 229, 280, 362; ASD 330; EDU 240, 245; ENG 420, 421; HIS 220, 241, 330; LAW 316; MSC 201; PHL 229; POL 316; PSY 247; REL 120; SOC 224, 226, 240, 262; SPA 311, 431.

Courses in American Social Diversity:
ASD 330. Diversity in the Workforce. 3 credits.

Criteria for American Social Diversity Courses:

- Courses focus on social diversity within the United States.
- Courses require students to analyze critically how race, ethnicity, gender, economic class, sexual orientation, and/or religious convictions have divided and defined Americans.

Liberal Studies. 24–26 credit hours.

Courses in this component introduce fundamental concepts, methods, and content in disciplines essential to a liberal education.
Requirement: Eight courses, with at least one course in each of the six areas, and two additional courses in any of the six areas. No more than two courses from any one area may be used to satisfy the Liberal Studies requirement.

Area 1: History [L1]. Courses acquaint students with some of the principal developments of the past or present, in World or American history. In the context of the principal developments of the historical period being studied, students analyze problems or controversies, placing a particular institution, idea, artifact, or event into its historical and/or cultural context. Students also learn to use, analyze, and/or assess a variety of different kinds of source material.

Approved: AMS 111, 220, 223, 225, 340; HIS 103, 104, 105, 125, 126, 207, 210, 217, 226, 240; POL 207; REL 340.

Area 2: Social Sciences [L2]. Courses establish and explore domestic and/or international patterns of culture and social organization, examining the interrelationships among individuals, structures, and processes of societies. Courses draw on theories and methodological approaches used in the social sciences and prepare students to evaluate, integrate, and communicate information about issues related to human behavior.

Approved: ECN 101, 102, 105; GLB 101; HIS 215; LAW 215; POL 101, 110, 252; SOC 110, 120, 210, 230, 261.

Area 3: Natural Sciences [L3]. Courses present findings, concepts, and theories of science, develop an understanding of scientific methods of inquiry, engage students directly in the practice of science, and prepare students to think critically about scientific issues.

Students must complete both lecture and associated lab component to satisfy the Natural Sciences requirement.

Approved: BIO 101/L, 102/L, 103/L, 111/L, 112/L; CHM 111/113 or 111/115, 112/114 or 112/116; PHY 101/L, 102/L, 103/L, 104/L, 111/L, 112/L, 120/L; PSY 111/L; SCI 100/L.

Area 4: Mathematics [L4]. Courses introduce pivotal mathematical ideas, abstract mathematical constructs, and mathematical applications. They make students aware of the powers and limitations of mathematics and emphasize the role of mathematics

in our society. They strengthen students' abilities to read in order to understand ideas and extract technical or mathematical information, to apply mathematical reasoning, and to articulate mathematical ideas.

Approved: MAS 100, 111, 112, 150, 161, 162, 170, 270.

Area 5: Literature and Fine Art [L5]. Courses acquaint students with significant works of artistic expression and with their historical and cultural contexts. They help them analyze and broaden their understanding of works of art, music, and literature and seek both to extend their aesthetic experience and enhance the quality of their critical judgment.

Approved: ART 112, 114, 214, 312, 316, 320, 328, 330, 332; ENG 120, 180, 221, 222, 225, 226, 227, 228, 375; FRN 330, 405, 440, 450; GMN 330, 410, 405, 460; MBS 203; MSC 100, 101, 242, 343; SPA 330, 440, 445, 450, 480.

Area 6: Religion and Philosophy [L6]. Courses introduce students to major religious or philosophical perspectives and the critical study of meaning, values, morals, beliefs, or religious practices. These courses in religion and philosophy promote the intellectual skills of inquiry and analysis, and promote personal and social responsibility by helping to establish the foundations and skills for lifelong learning.

Approved: PHL 110, 210, 222, 230; REL 110, 202, 230, 250, 251.

Disciplinary Perspectives [DSP]. Three credit hours.

One course from a list approved for this component.

This component offers students an opportunity to bring insights from different disciplines to the analysis of a complex issue. Courses incorporate content and approaches from at least two disciplines, ask students to draw on their own disciplinary perspectives, and challenge them to approach and analyze issues from various points of view. Junior or senior standing is required.

Approved courses: AMS 311, 328; ART 351; DCOM 333, 380, 384, 385, 386; DSP 310, 320, 322, 324, 335, 340, 348, 350, 352, 354, 355, 356, 370, 375, 376, 380, 381, 382, 390; FRN 375, 380; GMN 375, 380; HIS 301; PHL 349; PHT 412; POL 380; REL 313, 314.

Multidisciplinary Courses:

The faculty has approved the following multidisciplinary courses. All satisfy the General Education Program requirement for a disciplinary perspectives course. Junior or senior standing is required.

DSP 310. AIDS. 3 credits.
DSP 320. The College Colloquium. 3 credits.
DSP 322. The 20th-Century World. 3 credits.
DSP 324. The American Presidency: Power and Character. 3 credits.
DSP 335. Religion and Literature. 3 credits.
DSP 340. Myths and Their Meaning. 3 credits.
DSP 348. The Atomic Bomb: History, Science, and Culture. 3 credits.
DSP 350. Drugs and Behavior. 3 credits.
DSP 352. Marx and Marxism. 3 credits.
DSP 354. Issues in Contemporary Europe. 3 credits.

DSP 355. Water Worlds: Cities, Their Environments And Influences. 3 credits.
DSP 356. Liberty and Justice. 3 credits.
DSP 370. Paranormal and Pseudoscientific Phenomena: A Critical Examination. 3 credits.
DSP 375. French and Francophone Film. 3 credits.
DSP 376. German-Language Film. 3 credits.
DSP 380. EU Simulation. 3 credits.
DSP 381. Global Issues in French and Francophone Societies. 3 credits.
DSP 382. Global Issues in German-Speaking Societies. 3 credits.
DSP 390. Special Topics. 3 credits.

Criteria for Disciplinary Perspectives Courses:

- Courses must involve considerations of issues, questions, or problems that lie outside the domain of individual disciplines.
- Issues or problems addressed need not be contemporary, but should be open to approach by multiple disciplines. Examples of such issues are the environmental crisis with its political, scientific, economic, and ethical dimensions; the impact of technology and its associated materialism and scientific rationalism on the cultural, social, psychological, and spiritual aspects of human society.
- Each course shall involve content and approaches from two or more different disciplines. In no case shall information and/or methodology from a single discipline comprise more than one-half of the course content.
- The courses in this component may be taught by one instructor or be team-taught.

For full descriptions of courses in the general education program, please visit www.lvc.edu/general-education.

Cooperative Programs

Engineering

In the cooperative 3+2 Engineering Program, a student earns a B.S. degree from Lebanon Valley College and a B.S. degree in one of the fields of engineering from another institution. Students do three years of work at Lebanon Valley College and then usually do two additional years of work in engineering. Students may study engineering at any accredited engineering school. To assist the student, Lebanon Valley College has cooperative (contractual) agreements with The Pennsylvania State University and Case Western Reserve University in Cleveland. There are three tracks for 3+2 engineering. For most fields of engineering, the student completes the B.S. physics track. For chemical engineering, the student completes the B.S. chemistry track. For computer engineering, the student completes the B.S. computer science track. For more information, contact Professor Michael Day (director, 3+2 Engineering Program).

Medical Technology (Clinical Laboratory Science)

The overall goal of the Medical Technology Program is to prepare students for a career as a clinical laboratory scientist with certification from the American

Society for Clinical Pathology and the National Credentialing Agency for Laboratory Personnel. Medical Technology is a 3+1 cooperative program in which the student spends three years at LVC to fulfill the requirements of the College and of the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). During the third year, the student applies to a NAACLS-accredited school of medical laboratory science, where he or she will complete the fourth year of clinical training. After successful completion of the fourth year, the student is awarded the Bachelor of Science in Medical Technology by Lebanon Valley College. The College is affiliated with the following clinical programs: Florence M. Cook School of Medical Laboratory Science of the Jersey Shore Medical Center, and the Clinical Laboratory Science Program of the Lancaster General College of Nursing and Health Sciences. However, the student is not limited to these affiliated programs and may seek acceptance at other accredited clinical schools.

Program Goals

Students completing this program will:

- Develop academic skills within the liberal arts environment that will provide a foundation for success in advanced courses, in clinical laboratory education, on national certification exams, and encourage life-long learning.
- Acquire the factual and conceptual knowledge needed to pursue and benefit from the clinical laboratory education and pursue a career in medical technology.
- Acquire skills to evaluate laboratory methods, critically analyze data, and effectively communicate their findings in both a written and oral format.
- Acquire, through our affiliated training hospitals, the clinical laboratory skills and experience necessary to function as highly qualified clinical laboratory technologists and provide patient care in a professional manner consistent with established ethical guidelines.

Degree Requirements

Degree: Bachelor of Science in Medical Technology

Major: BIO 111/L, 112/L, 201/L, 306/L, 322/L or 324/L, 323/L; CHM 111, 112, 113, 114, 213, 214, 215, 216; PHY 103/L, 104/L; MAS 170 (51 credits). The senior year is spent off campus at an accredited hospital school of medical technology. It is the student's responsibility to apply and become accepted into a hospital program. Thirty-two semester hours of credit are awarded for the successful completion of the senior year.

Pre-Professional Programs

Pre-Law Program

Lebanon Valley graduates have done very well at a variety of law schools. Over the years, LVC students who have excelled academically have attended Harvard, Chicago, Columbia, Stanford, Washington and Lee, and William & Mary. Our graduates have also studied at several of Pennsylvania's fine schools of law, including Penn State Dickinson, Temple, Villanova, Duquesne, Drexel, and Widener. Lebanon

Valley alumni have pursued legal careers with corporations, government, while a number have entered politics.

Students should consult with the pre-law advisor well before commencing the law school application process. The pre-law advisor, Dr. Philip Benesch, will help you decide when to take the Law School Admission Test (LSAT) and which law schools may suit your interests and qualifications. The LSAT is required for acceptance at American Bar Association-approved law schools. The LSAT is given four times during the year, typically in February, June, September, and December. For many, it will be beneficial to take an LSAT preparation course. LVC has teamed with Kaplan to offer practice LSATs online at several points during the academic year. In addition, we strongly recommend that before taking the LSAT, students complete PHL 280 Logic, a course required for the law and society minor.

In addition to an applicant's LSAT score, law schools will consider his or her GPA, transcript, letters of recommendation, and personal statement. No single major is identified as an ideal preparation for law school; rather a broad liberal-arts curriculum is preferred, with courses known for significant reading, writing, and thinking challenges being particularly valued.

A law and society minor can be taken alongside any major at LVC. Further information on the law and society minor can be found in the history, politics, and global studies science section of the College Catalog.

In addition, it is recommended that pre-law students take the following courses to fulfill general education requirements or free electives: HIS 125 (L1), HIS 126 (L2), ECN 101 (L2), ECN 102 (L2), POL 110 (L2), PHL 210 (L6). Other elective courses of potential interest to pre-law students include BUS 371/372, Business Law, and ACT 161/162, Financial and Managerial Accounting.

Students interested in law school should contact the pre-law advisor as early as possible in their studies at Lebanon Valley. Dr. Philip Benesch, the pre-law advisor and director of the Law and Society Program, can be reached by phone at 717-867-6326, at his office HUM 206, or by email at prelaw@lvc.edu.

Pre-Medical, Pre-Dentistry, Pre-Veterinary

Lebanon Valley College offers pre-professional preparation in the medical (medicine, osteopathy, optometry, podiatry, pharmacy, chiropractic, dentistry, and physician assistant) and veterinary fields. Students interested in one of these careers usually follow a science curriculum with a major in biochemistry & molecular biology, biology, chemistry, or psychobiology.

In addition to the basic natural sciences suited to advanced professional study, the student may participate in an internship program between the College and local physicians or veterinarians. Students not only receive credit for the work, but also gain valuable experience in the field.

A health professions committee coordinates the various plans of study in addition to offering advice and assistance to those persons interested in health professions careers.

Lebanon Valley College graduates have been admitted to some of the nation's finest schools, including Johns Hopkins University Medical School, University of

Virginia, Cornell University, The University of Pennsylvania, The University of Pittsburgh, Jefferson Medical School, Lake Erie College of Osteopathic Medicine, The Pennsylvania State University Medical School at Hershey, Temple University School of Pediatric Medicine, The University of Maryland, The Philadelphia College of Osteopathic Medicine, The Pennsylvania College of Pediatric Medicine, and the Pennsylvania College of Optometry.

Self-Designed Major

Lebanon Valley College undergraduates have the option to self-design a major around specific interests and goals, provided the field of concentration is not substantially addressed by any singular academic program. Self-designed majors are in keeping with the tradition of liberal learning by allowing students to develop an interdisciplinary course of study between at least two academic programs.

Students who intend to complete a self-designed major must first select both a primary advisor and a secondary advisor. The primary advisor should be a faculty member from the department/ discipline that will be most frequently represented by coursework in the major. The secondary advisor is a faculty member from the second discipline constituting the major. Students who do not know specific faculty members that might serve as either primary or secondary advisors should contact the respective department chairs for referrals.

In consultation with the primary advisor, a student pursuing a self-designed major should prepare an application which includes the following: a description of and rationale for the major, the major's goals and measureable learning objectives, required and/or elective courses aligned with the major's learning objectives, core competencies developed in the major, and a proposed four-year schedule of classes. The self-designed major should consist of at least 27 credits above the 100-level, with at least 12 credits at the 300-level or above, including the capstone experience. A culminating experience should be included as part of the major.

Students in self-designed majors must complete a capstone experience that synthesizes the two disciplines included in the major and requires students to demonstrate successful achievement of the major's goals and objectives.

The application for the self-designed major must be approved by the primary and secondary advisor before submitting it to the faculty Committee on Curriculum and Assessment. The committee will review the proposed major and either approve, approve pending modification or reject the proposed program. Final approval is determined by the vice president of academic affairs and dean of the faculty. Any changes made to the courses required for the major must be approved by the Committee on Curriculum and Assessment and supported by a justification from the student and primary advisor.

Students planning on a self-designed major generally submit their proposals within their first four semesters at the College. The number of credits in the major that were completed prior to submitting an application may influence the committee's decision concerning approval of the major. Except in unusual cases and with sufficient justification, proposals submitted after 60 percent of the coursework for the self- designed major has been completed will not be considered.

It is important to note that the self-designed major offers a creative alternative for students with definite, integrated educational goals. It is not a way for students to avoid specific requirements. Consistent with the grading policies for all undergraduate majors, students may not elect for the Pass/Fail option in courses that fulfill general education requirements or the requirements of the self-designed major.

Degree: Bachelor of Arts or Bachelor of Science degree (depending on concentration) with a self-designed major.

Requirements: Those courses specified for the approved self-designed major, plus those courses necessary for general requirements. As with all majors, students must complete 120 credits and maintain a cumulative grade point average of at least 2.00 and a major grade point average of at least 2.00.

Application Process for the Self-Designed Major:

1. Pick up the self-designed major application and the major card from the Registrar's Office in Humanities 106. The major card should indicate whether the self-designed major will be pursued instead of or in addition to previous major.
2. Meet with the primary advisor to develop and plan the self-designed major and prepare the application.
3. Submit the completed application to the registrar, who will bring it to the Faculty Committee on Curriculum and Assessment for consideration.
4. The student will be notified by the vice president of academic affairs and dean of the faculty whether the major is approved, approved with modification, or rejected. If the major is approved, changes will be processed by the Registrar's Office.
5. If the major is approved, the student and the primary advisor should complete a semester-by-semester course plan and submit this plan to the Registrar's Office.
6. As with all majors, students completing a self-designed major must complete 120 credits and maintain a cumulative grade point average of at least 2.00 and a major grade point average of at least 2.00.

Internships

An internship is a practical and professional work experience that allows students to participate in the operations of business, industry, education, government, or not-for-profit organizations. Internships provide students with opportunities to integrate their classroom learning with on-the-job experiences and to test practical applications of their liberal arts education in a variety of settings.

To be eligible for an internship sponsored by an academic department or program, a student generally will have junior or senior standing. Students must request and receive permission from departmental chairpersons or program directors to enroll in internships. The student must also enlist a faculty internship supervisor from the department sponsoring the internship and an on-site internship supervisor from the internship location. Application forms for internships are available in the Registrar's Office. The application form shall be completed by the student and approved by the student's academic advisor, faculty internship supervisor, on-site internship supervisor, and the department chairperson prior to registration.

For each semester hour of credit, the intern should invest at least 45 hours of time at the internship location. Academic departments and programs establish other specific criteria and procedures for internships. In addition to the practical on-site experience, internships have an academic component that may include readings, reports, journals, seminars, and/or faculty conferences. A student may enroll for 1–12 credit hours of internship during any one semester. A student may use a maximum of 12 credit hours of internship to meet graduation requirements. All internships have a course number of 400.

Independent Study

Independent study provides an opportunity to undertake a program of supervised reading, research, or creative work not incorporated in existing formal courses. The independent study should result in a formal document. Independent study shall not be used to approximate an existing course or to cover projects more properly described as internships. A minimum GPA of 2.00 is required.

For one semester hour of credit, the independent study student should invest at least 45 clock hours of time in reading, research, or report writing. The independent study involves a contract between the student and the faculty member (contract instructor) who will oversee the study. Written application forms regarding the independent study are available in the Registrar's Office. The forms must be completed by the student and approved by the student's faculty advisor, the contract instructor, and the department chairperson.

Students may enroll in a maximum of 3 credit hours per independent study in any one semester. A maximum of 6 credit hours in independent study may be used toward the graduation requirements. All independent studies have a course number of 500.

Tutorial Study

Tutorial study provides students with a special opportunity to take an existing formal course in the curricula that is not scheduled that semester or summer session. Students desiring a tutorial study must have an appropriate member of the faculty agree to supervise the study on a one-on-one basis.

For one semester hour of credit, the student should invest at least 45 clock hours of time in the tutorial study. The tutorial study essentially involves a contract between the student and the faculty advisor. The typical tutorial study involves readings, research, report writing, faculty conferences, and examinations. All tutorial study courses have the same course number as the existing formal catalog course.

Special Topics Courses

From time to time, departments may offer Special Topics courses using the following course numbers: 290–298, 390–398, 490–498, and 590. Special Topics courses are formal courses that are not listed permanently in the curricula and that are offered infrequently. These courses examine comparatively narrow subjects that may be topical or of special interest. Several different topics may be taught in one semester or academic year. A specific course title shall be used in each instance and shall be so noted on the student record.

Study Abroad—Center for Global Education

Lebanon Valley College has established its own study abroad programs for students majoring in all subjects. All programs ensure a cultural immersion experience for students, with several programs, open to language majors and non-language majors, also offering a language-enhancement opportunity. These programs are located in Argentina, Australia, China, Dominican Republic, England, France, Germany, Greece, Italy, Netherlands, New Zealand, Northern Ireland, and Spain. Lebanon Valley College also offers off-campus academic internship programs in Philadelphia

and Washington, D.C. Students in any major field can gain work experience in a large U.S. city while earning academic credits for the semester. More information about all short-term and semester off-campus programs may be obtained at the Center for Global Education, Mund College Center, ext. 6076. See In-Absentia on page 18.

UNDERGRADUATE DEPARTMENTS AND PROGRAMS

AMERICAN STUDIES PROGRAM

The American Studies Program is designed to heighten critical awareness and appreciation of what is distinctive about American culture. As a self-consciously interdisciplinary program, American studies is the primary site at LVC for courses dealing in women's studies, ethnic studies, cultural studies, and media studies. Its curriculum regularly touches on issues of class, gender, ethnicity, and multiculturalism. As a result, many of the General Education Program's required courses in social diversity studies are listed through the American Studies Program. The program also has courses that critically explore the interrelationship of religion and politics in the United States, the impacts of consumerism on the American economy and culture, the distinction between "pop culture" and "high culture," and the importance of the counter-cultural movement in American art, literature, and film.

The American Studies Program draws on faculty from various disciplines and departments from throughout the College, such as religion and philosophy, history and politics, anthropology, psychology, art, English, and music. Each class is committed to engendering a culture of participation in which student input and engagement are absolutely essential to the success of the course. Also, the program is known for creating many of the most innovative and experimental courses on campus, such as the team-taught courses on violence and non-violence and on film and the American identity.

The program offers a minor wherein every class also meets general education requirements. The American Studies minor can be combined with any major and can contribute to a career in teaching, publishing, law, journalism, government, consulting and research, historic preservation, museums, archiving, tourism, or a number of other professions. Many of our graduates also go on to graduate school to earn a master's degree or doctorate in American studies or a related discipline.

Program Requirements

Minor: AMS 111; two AMS courses at the 200 level; two AMS courses at the 300 level; one additional AMS course or any of the following courses that directly pertain to the study of American society and culture: HIS 230, 330; LAW 316; MSC 201; PHL 222; POL 110, 230, 312, 316; PSY 247; REL 120; SOC 262 (18 credits).

Courses in American Studies

AMS 111. Introduction to American Studies. 3 credits. [L1]
AMS 220. American Popular Culture: Production and Consumption. 3 credits. [L1]
AMS 223. American Thought and Culture. 3 credits. [L1, WP]
AMS 225. Democracy in America. 3 credits. [L1]
AMS 229. Culture and Conflict in Modern America. 3 credits. [AD, WP]
AMS 280. Gender and Sexual Minorities in America Culture. 3 credits. [AD]

AMS 311. American Science and Technology. 3 credits. [DP]
AMS 328. Film and the American Identity. 4 credits. [DP]
AMS 340. One Nation Under God? 3 credits. [L1]
AMS 362. Multiculturalism and the American Identity. 3 credits. [AD]

For additional information about this program, including faculty and full course descriptions, please visit www.lvc.edu/american-studies.

DEPARTMENT OF ART & ART HISTORY

In the Art & Art History Department we invite our students to explore the creative process and to engage in the study of significant works of art and architecture. The focus of the program is on the development of essential skills: visual literacy, the ability to articulate oral and written arguments, and professional preparedness. We achieve this goal through innovative teaching and a rigorous curriculum in which students develop under the guidance of accomplished faculty mentors. With this foundation our graduates are equipped to begin careers as artists, designers, and museum workers, and are able to successfully complete post-graduate degree programs at institutions nationwide.

The Art & Art History Department offers a major in art & art history, with concentrations in art history and studio art. The department also offers minor programs in art history and studio art.

Situated in the newly redesigned Lynch Memorial Hall, the Art & Art History Department contains classrooms and studios with digital projection systems; dedicated painting, sculpture, and design studios; private studio spaces for advanced students; a large photographic darkroom; galleries for exhibiting student work; and an art history research gallery housing works from the College collection. The nearby Gladys M. Fencil Art Building contains dedicated studios for drawing, printmaking, and ceramics, including potter's wheels, kilns, and raku equipment. An additional component of the program is the Suzanne H. Arnold Art Gallery, which hosts museum-quality exhibitions of work by innovative contemporary artists and historical masters while presenting numerous lectures and workshops throughout the year.

Art & Art History Program

Program Goals

Students completing this program will:

- possess foundational skills and knowledge in studio art and art history.
- become critical and creative thinkers.
- show evidence of professional preparedness.

Degree Requirements

Degree: Bachelor of Arts with a major in art and art history.

Major: Core requirements: ART 103, 112, 114, 116.

Art history concentration: ART 404, 406, and seven additional art courses, at least six of which must be in art history (ART 214, 312, 316, 320, 328, 330, 332, 340, 351, 391, 400).

Studio art concentration: ART 205 or 217; ART 209, 405, 406; four courses from ART 211, 217, 219, 221, 223, 225, 231, 400; one course from ART 305, 309, 311, 315, 319, 323, 392.

Art history minor: ART 112, 114, 116; two art history courses, one of which must be at the 300- or 400-level; one art history or studio art course (18 credits).

Studio art minor: ART 103, 209; ART 205 or 217; two studio art courses, one of which must be at the 300- or 400-level; one studio art or art history course (18 credits).

Courses in Art & Art History

ART 103. Visual Thinking. 3 credits.
ART 112. Western Art I: Prehistoric to Medieval. 3 credits. [L5]
ART 114. Western Art II: Renaissance to Modern. 3 credits. [L5]
ART 116. Non-Western Art: Africa to Oceania. 3 credits. [ID]
ART 205. Drawing I: Material and Form. 3 credits.
ART 209. Sculpture I: Material and Form. 3 credits.
ART 211. Darkroom Photography. 3 credits.
ART 214. History of Photography. 3 credits. [L5, WP]
ART 217. Drawing II: The Human Form. 3 credits.
ART 219. Painting I: Color and Form. 3 credits.
ART 221. Painting II: Water-Based Media. 3 credits.
ART 223. Ceramics I: Material and Form. 3 credits.
ART 225. Printmaking. 3 credits.
ART 231. Digital Photography. 3 credits.
ART 305. Drawing III: Illustration. 3 credits.
ART 309. Pastel. 3 credits.
ART 311. Photography II: Concept and Technique. 3 credits.
ART 312. Renaissance Art. 3 credits. [L5, WP]
ART 315. Sculpture II: Material and Concept. 3 credits.
ART 316. Baroque Art. 3 credits. [L5, WP]
ART 319. Painting III: Concept and Technique. 3 credits.
ART 320. Art and Revolution: 1776 to 1863. 3 credits. [L5, WP]
ART 323. Ceramics II: Material and Concept. 3 credits.
ART 328. Modern Art. 3 credits. [L5, WP]
ART 330. Contemporary Art: 1980 to Present. 3 credits. [L5]
ART 332. Art and the Moving Image. 3 credits. [L5]
ART 340. Museum Studies. 3 credits.
ART 351. Color and Culture. 3 credits. [DP, WP]
ART 390. Special Topics. 3 credits.
ART 391. Special Topics in Art History. 3 credits.
ART 392. Special Topics in Studio Art. 3 credits.
ART 400. Internship. 1-12 credits.

ART 404. Art History: Theory and Method. 3 credits.
ART 405. Advanced Studio. 3 credits.
ART 406. Portfolio & Professional Development. 3 credits.

For additional information about this program, including faculty and full course descriptions, please visit www.lvc.edu/art.

DEPARTMENT OF BIOLOGY

Biology Program

The Biology Department attempts to share with all LVC students the role of living organisms within the universe. We encourage the students to understand how these organisms interact with each other and their environments and are the result of the complex interplay of ordinary chemicals, arranged according to the fundamental laws of physics and assembled in mathematically predictable ways.

The goal of the Biology Department is to produce graduates who are well versed in the principles and techniques of biology, have the intellectual training to investigate novel concepts, have the ability to learn independently, interpret and articulate clearly their findings, possess the highest scholarly standards of the discipline, and maintain honest academic conduct.

Program Goals

Students completing this program will:

- Understand the underlying principles of biology and possess a background in the supporting disciplines.
- Apply the scientific method in the laboratory or field.
- Retrieve information, synthesize ideas into a coherent whole, and communicate their findings.
- Be prepared for graduate, professional, and technical fields.

Degree Requirements

Degree: Bachelor of Science with a major in biology.

Major: BIO 111/L, 112/L, 201/L, 499; two courses from the area of Cellular/Molecular Biology—BIO 231/L, 304/L, BIO 306/L, BIO 323/L, BCMB 401/L; two courses from the area of Organismal Biology—BIO 221/L, BIO 302/L, BIO 305/L, a physiology course: BIO 307/L or BIO 322/L or BIO 324/L; one course from the area of Population Biology—BIO 212/L, BIO 312/L, BIO 402/L (33 credits). CHM 111, 112, 113, 114, 213, 214, 215, 216 (16 credits); PHY 103/L, 104/L or 111/L, 112/L; MAS 161 (111) or MAS 170 (60-61 credits total).

Minor: BIO 111/L, 112/L; plus four additional courses in biology at 200 or above except BIO 400 and 500. (24 total credits).

Secondary Teacher Certification: In addition to a major in biology, students seeking secondary certification in biology must take BIO 312. Certification candidates must also complete 33 credits in additional required coursework. See the Education Department section on pages 65-66 for additional information.

Courses in Biology

BIO 101. Human Biology. 3 credits. [L3]
BIO 101L. Human Biology Laboratory. 1 credit. [L3]
BIO 102. Human Heredity. 3 credits. [L3]
BIO 102L. Human Heredity Laboratory. 1 credit. [L3]
BIO 103. Environmental Science. 3 credits. [L3]
BIO 103L. Environmental Science Laboratory. 1 credit. [L3]
BIO 111. General Biology I. 3 credits. [L3]
BIO 111L. General Biology I Laboratory. 1 credit. [L3]
BIO 112. General Biology II. 3 credits. [L3]
BIO 112L. General Biology II Laboratory. 1 credit. [L3]
BIO 201. Genetics. 3 credits.
BIO 201L. Genetics Laboratory. 1 credit.
BIO 212. Animal Behavior. 3 credits.
BIO 212L. Animal Behavior Laboratory. 1 credit.
BIO 221. Mammalian Anatomy. 3 credits.
BIO 221L. Mammalian Anatomy Laboratory. 1 credit.
BIO 222. Human Physiology. 3 credits.
BIO 222L. Human Physiology Laboratory. 1 credit.
BIO 231. Neurobiology. 3 credits.
BIO 231L. Neurobiology Laboratory. 1 credit.
BIO 302. Plant Diversity. 3 credits.
BIO 302L. Plant Diversity Laboratory. 1 credit.
BIO 304. Developmental Biology. 3 credits. [WP]
BIO 304L. Developmental Biology Laboratory. 1 credit.
BIO 305. Cell and Tissue Biology. 3 credits.
BIO 305L. Cell and Tissue Biology Laboratory. 1 credit.
BIO 306. Microbiology. 3 credits.
BIO 306L. Microbiology Laboratory. 1 credit.
BIO 307. Plant Physiology. 3 credits. [WP]
BIO 307L. Plant Physiology Laboratory. 1 credit.
BIO 312. Ecology I. 3 credits. [WP]
BIO 312L. Ecology I Laboratory. 1 credit.
BIO 322. Vertebrate Physiology. 3 credits. [WP]
BIO 322L. Vertebrate Physiology Laboratory. 1 credit.
BIO 323. Introduction to Immunology. 3 credits.
BIO 323L. Introduction to Immunology Laboratory. 1 credit.
BIO 324. Invertebrate Physiology. 3 credits. [WP]
BIO 324L. Invertebrate Physiology Laboratory. 1 credit.
BIO 402. Evolution. 3 credits.
BIO 402L. Evolution Laboratory. 1 credit.
BIO 404. Electron Microscopy. 3 credits.
BIO 404L. Electron Microscopy Laboratory. 1 credit.
BIO 409. Ecology II. 3 credits.
BIO 409L. Ecology II Laboratory. 1 credit.
BIO 499. Seminar. 1-2 credits.
BIO 500. Independent Study. 1-3 credits.

Biochemistry & Molecular Biology Program

The Biology Department offers a biochemistry & molecular biology program in conjunction with the Chemistry Department, described on page 58. The major in biochemistry & molecular biology is an interdisciplinary program that provides an opportunity for interested students to engage in a comprehensive study of the chemical basis of biological processes. It is designed to prepare students for advanced study in medical, dental, and other professional schools, for graduate programs in a variety of subjects including biochemistry, clinical chemistry, pharmacology, molecular biology, genetics, microbiology, and physiology, and for research positions in industrial, academic, and government laboratories.

Program Goals:

Outcome 1—Molecular literacy. We place a high value on the study of: 1) proteins—their chemistry and their role as enzymes, structural, recognition, and signaling molecules; 2) nucleic acids—their structures, properties, and their roles in the storage and transmission of genetic information; 3) lipids, carbohydrates, and more complex biomolecules that have a diverse array of functions; 4) the roles of biomolecules in cellular signaling, metabolism, structure, and cellular organization; and 5) the integration, interaction, and regulation of complex developmental, signaling, and metabolic pathways at the organismal level.

Outcome 2—Critical evaluation and analytical problem-solving ability. We believe that scientists are problem solvers. Foundational knowledge is a resource that can be applied to the analysis of the complex and unknown. The thoughtful examination of problems and phenomena generates questions; it is the answers to those questions that, in turn, reinforce and expand knowledge.

Outcome 3—Experimental competency. Experimentation is the key to the generation of new knowledge. Scientists propose explanations for the phenomena they observe and then rigorously prove or disprove those explanations through experimental science.

Outcome 4—Communication proficiency. Scientists must be thoughtful and effective communicators of knowledge. Students are challenged to be articulate, demonstrate independent thought and a scientific intellect and possess the ability to communicate effectively with their scientific peers both verbally and on paper.

Outcome 5—Technology and information conversancy. Scientists must keep abreast of the current state of the discipline by being knowledgeable in the current primary literature and proficient in contemporary technologies.

Degree Requirements

Degree: Bachelor of Science with a major in biochemistry and molecular biology.

Major: BIO 111/L, 112/L, 201/L; CHM 111, 112, 115, 116, 213, 214, 215, 216; BCMB 401/L, 421, 422, 430, 499; MAS 161; PHY 103/L, 104/L or 111/L, 112/L (51 credits); nine credits from BIO 304/L, 305/L, 306/L, 307/L, 322/L, 323/L, 404/L and CHM 305, 306, 307, 308, 311.

Courses in Biochemistry and Molecular Biology

BCMB 401. Molecular Biology. 3 credits.
BCMB 401L. Molecular Biology Laboratory. 1 credit.
BCMB 421. Biochemistry I. 3 credits.
BCMB 422. Biochemistry II. 3 credits.
BCMB 430. Biochemistry Laboratory. 1 credit.
BCMB 499. Biochemistry Seminar. 1 credit.

For additional information about this program, including faculty and full course descriptions, please visit www.lvc.edu/biochemistry.

Psychobiology Program

The major in psychobiology is offered jointly by the Departments of Biology and Psychology, described on pages 50 and 96. This interdisciplinary major emphasizes the physiological substrates and consequences of behavior. Consisting of a combination of psychology and biology course work, the program prepares students for graduate study in medicine, veterinary medicine, graduate programs in psychology, animal behavior, physiological psychology, psychopharmacology, behavior genetics, and neuroscience, as well as research positions in industry, universities, hospitals, and government laboratories.

Program Goals

Students completing this program will:

- Articulate the concepts and methodologies of the interdisciplinary field of behavioral neuroscience, including the biological (evolutionary, comparative, molecular, cellular, and pharmacological) bases of behavior (social, cognitive, and developmental processes).
- Evaluate scientific literature critically, formulate hypotheses, design scientific experiments, and communicate research findings.
- Learn to integrate information and synthesize ideas into a coherent whole.
- Learn to evaluate the ethical dimensions and societal implications of research in behavioral neuroscience.

Degree Requirements

Degree: Bachelor of Science with a major in psychobiology.

Major: BIO 111/L, 112/L, 212/L, 322/L or 324/L (16 credits); PSY 111/L, 211/L, 212/L, 285, 378, 379 (18 credits); BIO 499 or PBI 499; CHM 111, 112, 113, 114 (8 credits); MAS 161 or 170; plus 8 additional credits in the sciences in consultation with advisor. 54 total credits.

Courses in Psychobiology

PBI 499. Psychobiology Seminar. 1 credit.

For additional information about this program, including faculty and full course descriptions, please visit www.lvc.edu/psychobiology.

DEPARTMENT OF BUSINESS AND ECONOMICS

Lebanon Valley College is a member of and is accredited by the Accreditation Council of Business Schools and Programs (ACBSP) to offer bachelor of science degrees in accounting, business administration, and health care management, as well as the bachelor of arts degree in economics. A major in music business is also offered jointly with the Music Department. Economics students study the choices we must make in a world of resources that have competing uses. Economics majors are typically preparing for graduate study or for a variety of entry-level positions in business and government.

All programs are enhanced by the liberal arts core required of all Lebanon Valley College students. This interdisciplinary knowledge base helps graduates prepare for their professional careers, graduate school, and for assuming leadership positions in the changing environment.

Many major courses also cover selected liberal arts core requirements. Students are encouraged to use their extensive free electives to enrich and enhance their overall college résumé. Students often add breadth or even double major within the department, complete a complementary major or minor, complete for-credit internships, study abroad, or study in Philadelphia or Washington, D.C. Students working closely with their academic advisor can take full advantage of these opportunities and still graduate on time.

Students have several study abroad options with business classes conducted in English. This includes programs at the London Metropolitan University; Monash University in Australia; the Umbra Institute in Perugia, Italy; and Waikato University in New Zealand. Students seeking to develop their foreign language skills beyond the introductory level have a number of programs to choose from. Most programs are bi-lingual, mixing classes in the native language with classes taught in English. The Philadelphia and Washington, D.C., programs combine academic study and pre-professional internships. A short duration study program is available each summer in Maastricht, The Netherlands, which also completes the foreign study general education requirement.

The College and the department are also members of the Middle Atlantic Association of Colleges of Business Administration (MAACBA).

Accounting Program

The program in accounting offers the bachelor of science degree in accounting. Majors receive an excellent foundation for seeking professional certification as a CPA or CMA. The accounting curriculum prepares students for careers in public accounting, government, industry, or finance. The 27 credits of accounting, business law, and finance courses in the undergraduate major exceeds the 24 credit standard required to start sitting for the CPA exam on completion of the undergraduate degree (120 total semester credits).

The curriculum includes an array of introductory, intermediate, and advanced accounting topics integrated with courses in business and other supporting fields. Accounting students can complete all 36 of the accounting, finance, and business law credits required for CPA licensure by judicious use of the free elective

credits created by the overlap between the accounting major and the general education requirements. This frees graduates to consider a wider range of options for completing the final 30 credits (undergraduate or graduate) needed to secure CPA licensure in Pennsylvania after December 31, 2011.

Program Goals

Students completing this program will demonstrate and possess:

- An understanding of concepts of the accounting discipline and the application of those concepts to the intra-disciplinary focus of their own choosing.
- An understanding of the fundamental knowledge in the disciplines of economics, finance, business law, management science, and corporate strategy.
- Effective reading, listening, writing, and speaking skills appropriate to the accounting profession.
- Effective fundamental project management skills.
- Effective information research skills including information gathering, databases searching, assessing the value of information, and communicating findings on a focused topic in the discipline.
- Effective skills in applying generally accepted quantitative methodologies to the analysis and solution of complex accounting problems.
- Critical thinking skills appropriate to the accounting discipline including the ability to describe context, analyze context, link the context with concepts and theories, evaluate the situation, solve problems, and make and defend decisions.
- The ability to understand, apply, and integrate lead-edge information technology in the accounting environment.
- The ability to examine and evaluate individual and organizational behavior and its consequences within a moral framework.
- An assertive and active approach to launching and managing their career.

Degree Requirements

Degree: Bachelor of Science with a major in accounting.

Major: Foundation Courses: ACT 161, 162; ECN 101, 102; MAS 111, 150 or 161; one course from BUS 170, MAS 170, 270, or 372; BUS 130, 160. Core Courses; BUS 230, 285, 340, 361, 371, 485; ACT 251, 252, 353, 451, 455; ACT 351, 352, or 452; ACT 460 or BUS 460 (63 credits).

Minor: ACT 161, 162, 251, 252; 353 or 455; six credit hours of accounting electives not to include internship credit (21 credits).

Courses in Accounting

ACT 161. Financial Accounting. 3 credits.
ACT 162. Managerial Accounting. 3 credits.
ACT 251. Intermediate Accounting I. 3 credits.
ACT 252. Intermediate Accounting II. 3 credits.
ACT 253. Intermediate Accounting III. 3 credits.
ACT 351. Advanced Accounting. 3 credits.
ACT 352. Government and Non-Profit Accounting. 3 credits.
ACT 353. Cost Accounting. 3 credits.

ACT 400. Internship. 1-12 credits.
ACT 451. Individual Income Tax. 3 credits.
ACT 452. Corporate Taxation. 3 credits.
ACT 455. Auditing. 3 credits.
ACT 460. Accounting Information Systems. 3 credits.

Business Administration Program

This popular program offers the bachelor of science degree in business administration. This major is designed to prepare the student for a variety of entry-level and middle-management positions in industry, government, and service organizations.

The business curriculum conforms closely to the national common body of knowledge recommended by The Association of Collegiate Business Schools and Programs (ACBSP) and provides a solid background in the fundamentals of business. Majors complete a general business curriculum that prepares them for a variety of positions. Students desiring more in-depth study in a specific area of business may select a focus area composed of optional courses. Such focus areas include human resource/labor relations, international relations, marketing and public relations, and organizational psychology.

Program Goals

Students completing this program will demonstrate and possess:

- An understanding of the fundamental knowledge in the business disciplines of accounting, economics, management, management science, marketing, finance, international business, information management, business ethics, and corporate strategy.
- Effective reading, listening, writing, and speaking skills in the context of professional business communications.
- Effective fundamental project management skills.
- Effective information research skills including information gathering, databases searching, assessing the value of information, and communicating their findings.
- Effective skills in applying generally accepted mathematical and statistical methodologies to the analysis and solution of complex business problems.
- Critical thinking skills including the ability to describe context, analyze context, link the context with concepts and theories, evaluate the situation, solve problems, and make and defend decisions.
- Experience in interacting professionally and productively in small groups in a variety of social and business settings.
- The ability to understand, apply, and integrate leading-edge information technology in the business environment.
- The ability to examine and evaluate individual and organizational behavior and their consequences within a moral framework.
- An assertive and active approach to the launching and managing their careers.

Degree Requirements

Degree: Bachelor of Science with a major in business administration.

Major: Foundation Courses; ECN 101, 102; ACT 161, 162; MAS 111, 150 or 161; one course from BUS 170, MAS 170, 270, or 372; BUS 130, 160. Core Courses; BUS 230, 285, 340, 350, 361, 371, 376, 383, 450, 485; BUS 460 or ACT 460 (57 credits).

Minor: ECN 101; ACT 161; BUS 130, 230, 340, 371; BUS 285 or one 300/400 business elective not to include internship credit. (21 credits).

Courses in Business:

BUS 130. Modern Business Organizations. 3 credits.
BUS 160. Computer Applications. 3 credits.
BUS 170. Business Statistics. 3 credits.
BUS 230. Principles of Management. 3 credits.
BUS 275. Business in the European Union Detection. 3 credits.
BUS 285. Organizational Communications. 3 credits. [WP]
BUS 340. Principles of Marketing. 3 credits.
BUS 341. Consumer & Organizational Buying Behavior. 3 credits.
BUS 350. Organizational Behavior. 3 credits.
BUS 361. Principles of Finance. 3 credits.
BUS 362. Investments. 3 credits.
BUS 371. Business Law I. 3 credits.
BUS 372. Business Law II. 3 credits.
BUS 374. Personal Selling and Sales Management. 3 credits.
BUS 376. International Business Management. 3 credits.
BUS 381. Entrepreneurship and Small Business Management. 3 credits.
BUS 383. Management Science. 3 credits.
BUS 400. Internship. 1-12 credits.
BUS 420. Human Resource Management. 3 credits.
BUS 450. Business Ethics and Social Responsibility. 3 credits.
BUS 460. Management Information Systems. 3 credits.
BUS 461. Corporate Finance. 3 credits.
BUS 485. Strategic Management. 3 credits. [WP]

Economics Program

The major in economics deals with decisions and choices made by individuals and firms and with the micro and macroeconomic consequences of those choices. Economists have a wide variety of employment opportunities in government and the private sector. The major includes courses in mathematics, politics, and economics.

Program Goals

Students completing this program will demonstrate and possess:

- An understanding of the fundamental knowledge in the areas of macroeconomics, microeconomics, and general economic theory.

- A fundamental knowledge of key aspects of social policy that are derived from economic theory including how countries interact for economic purposes, how countries develop policy, and the assessment of issues related to the consequences of policy implementation.
- A fundamental understanding of the nature of economic research including an exposure to methods of discovery, methods of analysis, and methods of communication appropriate to the field. Special emphasis will be placed on the use of quantitative analysis techniques to describe, investigate, analyze, and evaluate issues.
- The ability to apply economic theory to historic, current, or future contexts.
- The ability to effectively pursue these investigations either alone or in small groups.
- The ability to effectively develop, present, and defend arguments surrounding an issue in both written and oral formats appropriate to the economics discipline.
- The ability to effectively work either alone or in small groups.
- The ability to select and use the appropriate technology for research, analysis, and communications.
- Effective fundamental project management skills.
- An assertive and active approach to launching and managing their care.

Degree Requirements

Degree: Bachelor of Arts with a major in economics.

Major: Foundation Courses: POL 110; one of three mathematics sequences: MAS 150, 161, or MAS 161, 162, or MAS 111, 112; MAS 170, 270 or 372; ECN 101 and 102. Core Courses: ECN 201, 202, 405, and four additional elective courses in economics at the 200 level or above, not including internship credit. (39 credits)

Minor: ECN 101, 102, 201, 202, and two additional courses in economics at the 200 level or above, not including internship credit. (18 credits)

Courses in Economics

ECN 101. Principles of Microeconomics. 3 credits. [L2]
ECN 102. Principles of Macroeconomics. 3 credits. [L2]
ECN 105. Essentials of Economics. 3 credits. [L2]
ECN 201. Intermediate Microeconomic Analysis. 3 credits.
ECN 202. Intermediate Macroeconomic Analysis. 3 credits.
ECN 230. Benefit Cost Analysis. 3 credits. [WP]
ECN 312. Money and Banking. 3 credits.
ECN 316. Environmental Economics. 3 credits.
ECN 317. Energy and Natural Resource Economics. 3 credits.
ECN 321. Public Finance. 3 credits.
ECN 331. International Finance. 3 credits.
ECN 332. International Trade. 3 credits. [WP]
ECN 333. Game Theory: Economic Applications. 3 credits.
ECN 400. Internship. 1-12 credits.
ECN 405. Applied Econometrics. 3 credits.
ECN 410. Senior Seminar. 3 credits. [WP]

Health Care Management Program

The major in health care management is designed for people in health care fields who possess an associate degree or diploma and professional certification. These qualifications are required for admission to the program. The program combines studies in the liberal arts and management, plus business practices common to the health care industry.

Program Goals

The goals for this program are the same as for the business administration major, listed above.

Degree Requirements

Degree: Bachelor of Science with a major in health care management.

Major: Health Care Management Foundation Courses: ECN 101, 102; ACT 161, 162; one course from BUS 170, MAS 170, 270, or 372; BUS 130 (may be waived for prior work experience). Core Courses: ENG 111; SOC 324; BUS 215, 230, 285, 340, 350, 371, 420, 450 (or PHL 210), 487; 12-15 credits in sociology, psychology, or other disciplines approved by the director of professional studies (at least 6 credits in courses at the 200 level or higher). (63-66 credits total).

Admission to this degree program is open only to adults who have completed successfully an accredited diploma or associate degree program with certification by a state governmental agency or a national professional accrediting organization in the following fields: clinical medical assistant, cytotechnologist, dental hygienist, emergency medical technician, medical laboratory technician, nuclear medicine technologist, occupational therapy assistant, physical therapy assistant, radiologic technologist, registered nurse, respiratory therapist, clinical perfusionist, surgical technician.

Courses in Health Care Management

BUS 215. Health Care Finance. 3 credits.
BUS 487. Health Care Management. 3 credits.

For additional information about these program, including faculty and full course descriptions, please visit www.lvc.edu/business-economics.

DEPARTMENT OF CHEMISTRY

Chemistry Program

Chemistry is the transformative science that underlies much of our modern technological society. Chemistry plays a leading role in discovering new sources of critically needed energy, in designing and synthesizing the latest wonder drugs, in solving crimes by precise chemical analyses of physical evidence, in analyzing the environment for ultratrace levels of toxins, and in preparing the myriad of new high-tech materials used in space exploration, in transportation, in communications, in clothing, and even in our new high-tech modes of recreation. Chemistry is everywhere and touches on almost every aspect of our daily lives.

Career opportunities in chemistry are numerous and diverse. Many students enter academic, industrial, or governmental laboratories where they find positions in research and development, analysis, or quality control. Possibilities outside the laboratory include teaching, sales, marketing, technical writing, business, and law. Many chemistry students earn doctoral degrees in chemistry or biochemistry or in the areas of medicine, dentistry, or veterinary medicine.

The Department of Chemistry is located on the upper two floors of the recently renovated Neidig-Garber Science Center. Among the major scientific equipment holdings used by students in laboratory courses and in research are a liquid chromatograph-mass spectrometer (LC-MS-MS), a superconducting nuclear magnetic resonance spectrometer (FTNMR), a MALDI-TOF mass spectrometer, a liquid scintillation counter, an infrared spectrometer (FTIR), high-performance liquid chromatographic (HPLC) systems, UV-visible spectrophotometers, a laser-Raman spectrophotometer, a gas chromatograph-mass spectrometer (GC-MS), a chemisorption analyzer, and an atomic absorption spectrophotometer. Most laboratories have computers on the bench top for data entry and analysis and for molecular modeling.

The department actively encourages students to discover the excitement and challenge of laboratory research. Research programs are conducted during the academic year and the summer. Students are paid for summer research either from college funds or from external grants that faculty receive to support their projects. The department also maintains an active internship program, actively assisting students in finding opportunities in industrial or academic laboratories.

The department offers two degrees to those interested in chemistry and one for those interested in biochemistry. The Bachelor of Science in Chemistry is the more demanding of the two degrees in chemistry and is certified by the American Chemical Society. This degree has a required research component and is recommended for students who wish to become practicing chemists or enroll in graduate school. Other students opt for the standard Bachelor of Science, majoring in chemistry.

The major in biochemistry is offered jointly with the Biology Department. For the major program and course descriptions in biochemistry, see page 50.

The Chemistry Department also participates in the 3+2 Engineering Program and directs the chemical engineering track. For details, see Cooperative Programs on page 39.

Program Goals

Students completing this program will:

- Possess a strong foundational knowledge of modern inorganic, organic, analytical, physical, and biological chemistry.
- Be proficient in applying modern laboratory methods and technological tools to the studies of chemical systems.
- Be skilled in the methods of scientific investigation.
- Be able to think as chemists, critically evaluating scientific information and solving scientific problems.
- Be able to effectively communicate scientific information.

Degree Requirements

Degrees: Bachelor of Science in Chemistry, Bachelor of Science with a major in chemistry.

Majors: (B.S. in Chemistry) CHM 111, 112, 115, 116, 213, 214, 215, 216, 222, 230, 305, 306, 307, 308, 311, 312, 321, 322, 411; BCMB 421; three credits from CHM 412–490 or BCMB 422; four credits of CHM 510; MAS 161, 162; PHY 111/L, 112/L (63–64 credits). (B.S., major in chemistry) CHM 111, 112, 115, 116, 213, 214, 215, 216, 222, 230, 305, 306, 307, 308, 311, 312, 321, 322; MAS 161, 162; PHY 111/L, 112/L; (50–51 credits).

Minor: CHM 111, 112 and either CHM 113, 114 or CHM 115, 116; 12 credits from CHM 213, 214, 222, 305, 306, 311, 312,411 or BCMB 421, 422; three credits from CHM 215, 216, 230, 307, 308, 321, 322 or BCMB 430.

Secondary Teacher Certification: In addition to a major in chemistry, students seeking secondary certification in chemistry must take BIO 111/L, 112/L; and BCMB 421. Certification candidates must also complete 33 credits in additional required coursework. See the Education Department section on page 63 for additional information.

Courses in Chemistry

CHM 111. Principles of Chemistry I. 3 credits. [L3]
CHM 112. Principles of Chemistry II. 3 credits. [L3]
CHM 113. Introductory Laboratory I. 1 credit. [L3]
CHM 114. Introductory Laboratory II. 1 credit. [L3]
CHM 115. Techniques of Chemistry I. 1 credit. [L3]
CHM 116. Techniques of Chemistry II. 1 credit. [L3]
CHM 213. Organic Chemistry I. 3 credits.
CHM 214. Organic Chemistry II. 3 credits.
CHM 215. Organic Laboratory I. 1 credit.
CHM 216. Organic Laboratory II. 1 credit.
CHM 222. Introductory Inorganic Chemistry. 3 credits.
CHM 230. Inorganic Chemistry Laboratory. 1 credit. [WP]

CHM 305. Analytical Chemistry. 3 credits.
CHM 306. Instrumental Analysis. 3 credits.
CHM 307. Quantitative Analysis Lab. 1 credit.
CHM 308. Instrumental Analysis Lab. 1 credit.
CHM 311. Physical Chemistry I. 3 credits.
CHM 312. Physical Chemistry II. 3 credits.
CHM 321. Physical Laboratory I. 1 credit. [WP]
CHM 322. Physical Laboratory II. 1 credit. [WP]
CHM 411. Advanced Inorganic Chemistry. 3 credits.
CHM 412. Advanced Physical Chemistry. 3 credits.
CHM 414. Advanced Organic Chemistry. 3 credits.
CHM 510. Chemical Research. 2-3 credits.

Courses in Science
SCI 100. Introduction to Science. 3 credits. [L3]
SCI 100L. Introduction to Science Laboratory. 1 credit. [L3]

For additional information about this program, including faculty and full course descriptions, please visit www.lvc.edu/chemistry.

DEPARTMENT OF DIGITAL COMMUNICATIONS

The digital communications major explores the interrelated elements of communication, business, design, and programming in a setting that employs human-centered design methodologies. The major fosters critical reasoning, creativity, innovation, and problem solving so that graduates have the ability to evolve as quickly as current technology.

The interdisciplinary nature of the major means that a program of study in digital communications relies on diverse methods and theories from disparate fields. After graduating with a B.S. degree in digital communications, the student is prepared to enter a wide range of communications, commerce, or technology-related positions in advertising, marketing, e-commerce, public relations, information technology, journalism, graphic design, experience design, web/multimedia design and development, and programming or further study in graduate programs such as communications, digital media/arts, library science, technical writing, instructional design, industrial design, and business.

Human-centered design and usability testing provide the foundation for this curriculum. Students will study design, content creation, programming, and business in the context of designing projects, business plans, or programs that account for the interests, habits, and behaviors of real users. They will study the interdisciplinary techniques through which information is created, processed, and

delivered. They will apply these theories in designing effective communications and will employ emerging technologies and usability testing strategies to create and test the projects and ideas they have developed.

The department's curriculum, designed to be interdisciplinary and integrative, emphasizes critical thinking, creativity, and analysis, rather than specific applications and technologies. In addition to the breadth provided by the core curriculum, students in digital communications will complete advanced coursework in one of six areas to form a concentration in business technology, communications, design, programming, user experience, or video. The General Education Program at the College, together with the courses in the students' concentration, will further augment the students' understanding of how information is created, processed, understood, and communicated.

Program Goals

Students completing this program will:

- Solve problems employing critical and creative methods.
- Communicate effectively.
- Evaluate the effects/consequences of digital technology on people.
- Plan and collaborate effectively.

Degree Requirements

Degree: Bachelor of Science with a major in Digital Communications. (57 credits).

Major Core: DCOM 130, 131, 150, 151, 170, 260, 261, 270, 271, 280, 281, 299, 311, 400, 410, 411.

In addition to the core, each major must complete one of the following 12-credit concentrations. With the exception of the programming concentration and subject to the approval of the advisor, one course may be taken outside of the concentration and/or department.

Business Technology Concentration: four courses from the following, with at least three taken at the 300-level: BUS 340; DCOM 296, 333, 350, 384, 396, 462, 464, 465, 466, 496.

Communications Concentration: four courses from the following, with at least three taken at the 300-level: DCOM 298, 340, 341, 343, 380, 382, 383, 384, 385, 387, 398, 465.

Design Concentration: four courses from the following, with at least three taken at the 300-level: DCOM 297, 340, 341, 343, 347, 350, 351, 352, 353, 397.

Programming Concentration: CSC 131, 132, 231, 232. Note: 231 will have a prerequisite of MAS 161.

User Experience: one 300-level course from the design concentration chosen in consultation with the advisor and three courses from the following: DCOM 293, 333, 431, 351, 393; PSY 211/L. At least three courses must be taken at the 300-level.

Video: DCOM 340, 341, 343, and one course from the following: AMS 328, ART 231, ART 332, DCOM 294, DCOM 347, DCOM 394.

Courses in Digital Communications

DCOM 099. Portfolio. 0 credits.
DCOM 130. Principles of Information Design. 3 credits.
DCOM 131. Usability Design and Testing. 3 credits.
DCOM 150. Fundamentals of Design. 3 credits.
DCOM 151. Digital Graphic Design. 3 credits.
DCOM 170. Web Markup and Layout. 3 credits.
DCOM 260. E-Commerce. 3 credits.
DCOM 261. E-Business Strategy. 3 credits.
DCOM 270. Programming for Digital Media. 3 credits.
DCOM 271. Databases in Design. 3 credits.
DCOM 280. Technical Communications for Digital Media. 3 credits. [WP]
DCOM 281. Storytelling for Online Media. 3 credits. [WP]
DCOM 290. Special Topics. 3 credits.
DCOM 293. Special Topics in User Experience. 3 credits.
DCOM 294. Special Topics in Video. 3 credits.
DCOM 295. Special Topics in Design. 3 credits.
DCOM 296. Special Topics in Business Technology. 3 credits.
DCOM 297. Special Topics in Programming. 3 credits.
DCOM 299. Portfolio. 0 credits.
DCOM 311. Information Law. 3 credits.
DCOM 333. Experience Design. 3 credits. [DP]
DCOM 340. Videography. 3 credits.
DCOM 341. Editing/Post-Production. 3 credits.
DCOM 343. Sound Design. 3 credits.
DCOM 347. Motion Graphics. 3 credits.
DCOM 350. Corporate Branding. 3 credits.
DCOM 351. Prototyping. 3 credits.
DCOM 352. Package Design. 3 credits.
DCOM 353. Typography. 3 credits.
DCOM 375. Advanced Website Design. 3 credits.
DCOM 380. Advertising. 3 credits. [DP, WP]
DCOM 382. Producing Web and Mobile Communications. 3 credits. [WP]
DCOM 383. Mobile Media: History, Theory, and Practice. 3 credits.
DCOM 384. Digital Media Ethics. 3 credits. [DP, WP]
DCOM 385. Big Data and Storytelling. 3 credits. [DP, WP]
DCOM 386. Video Games: History, Theory, and Social Impact. 3 credits. [DP]
DCOM 387. Social Media: History, Theory and Practice. 3 credits. [WP]
DCOM 390. Special Topics. 3 credits.
DCOM 393. Special Topics in User Experience. 3 credits.
DCOM 394. Special Topics in Video. 3 credits.
DCOM 395. Special Topics in Design. 3 credits.
DCOM 396. Special Topics in Business Technology. 3 credits.
DCOM 397. Special Topics in Programming. 3 credits.

DCOM 398. Special Topics in Communications. 3 credits.
DCOM 400. Internship. 1-12 credits.
DCOM 410. Capstone - Project Management. 3 credits.
DCOM 411. Capstone-Research and Development. 3 credits.
DCOM 431. Advanced Usability. 3 credits.
DCOM 462. Customer Experience Management. 3 credits.
DCOM 464. Enterprise 2.0. 3 credits.
DCOM 465. Internet Marketing. 3 credits.
DCOM 466. Innovation. 3 credits.
DCOM 493. Special Topics in User Experience. 3 credits.
DCOM 494. Special Topics in Video. 3 credits.
DCOM 495. Special Topics in Design. 3 credits.
DCOM 496. Special Topics in Business Technology. 3 credits.
DCOM 497. Special Topics in Programming. 3 credits.
DCOM 498. Special Topics in Communications. 3 credits.

For additional information about this program, including faculty and full course descriptions, please visit www.lvc.edu/digital-communications.

DEPARTMENT OF EDUCATION

The Lebanon Valley College Education Department offers majors in early childhood education (ECE, PreK–grade 4) and special education (PreK–grade 8). Certification in in secondary education (grades 7-12) and grades K-12 is offered in various fields, described below.

Regardless of your certification program, you will learn how to put educational theory into practice using the latest teaching methodologies. Beginning in your freshman year and continuing through your senior year, you will observe talented teachers at work in a variety of classroom settings with all types of students. After observing classes, you will go from tutoring individuals to actually planning and teaching lessons. By your senior year you will begin practicing your profession as a full-time student teacher.

Post-baccalaureate certification is also available for those who wish to become teachers or for those already certified who want to add a secondary certification area to an existing certificate.

Certification in two or more areas of teacher preparation is possible; however, such certification requires meticulous attention to scheduling and may require additional semesters. Early childhood education majors who, as freshmen, begin to pursue ECE, or ECE/special education (PreK–grade 8) certifications, will be able to complete them within their four years of study, unless they add other elements to their studies, such as pursuing an additional minor, double majoring in content areas outside the Education Department, studying abroad for a semester, etc. Careful and early scheduling can avoid misconceptions about such issues.

The Education Department is intent on preparing well-rounded and qualified graduates who will exercise genuinely professional and personal leadership roles in the schools and communities where they will live and work.

In accord with the regulations set forth in Chapter 354 and Chapter 49-2 of the Pennsylvania School Code, the following criteria must be met by all candidates who seek teacher certification at Lebanon Valley College:

I. All teacher candidates must be admitted to teacher certification candidacy by a formal and clearly delineated process that is distinct from admission to the College and/or to the major.

II. Admission to teacher certification candidacy (Chapter 354) is neither automatic nor synonymous with admission to the College or to the major.

III. Admission to teacher certification candidacy is contingent upon the completion of these criteria:

(1) completion of a minimum of 48 college credits;

(2) an overall GPA, after having completed 48 or more college credits, of no lower than 2.8 (preferred: GPA of 3.0 or higher);

(3) completion of at least one English composition course;

(4) completion of one English or American literature course;

(5) completion of two college level mathematics courses;

(6) passing scores on the Pre-service Academic Performance Assessment (PAPA) or an equivalent measure (SAT, ACT); and

(7) completion of the Application for Admission to Teacher Certification Candidacy form, available from the major adviser.

IV. Those students who do not meet the above criteria may continue to pursue teacher certification, even though they are not and cannot be considered candidates for teacher certification until all of the above requirements have been met.

V. Once all of the above requirements have been met, the student must see his or her advisor to complete the Application for Admission to Teacher Certification Candidacy form.

VI. Students who are not formally admitted to teacher certification candidacy will not be recommended for teacher certification upon graduation.

VII. Students must have the required minimum overall GPA of 3.0 at the time of graduation in order to be eligible for recommendation by the College for teacher certification.

The Chapter 49-2 regulations redefine the certification requirements for elementary education and special education in Pennsylvania. In addition, this law mandates that all certification students receive nine credits, or the equivalent, of instruction in special education and three credits, or the equivalent, of instruction in English as a Second Language (ESL).

Code of Ethics Statement

Lebanon Valley College's Education Department and its students are legally bound by the Pennsylvania Department of Education's *Code of Ethics*. Academic dishonesty is in direct violation of the Pennsylvania Department of Education's *Code of Ethics*. As a consequence of the state's *Code of Ethics* in addition to the College's Academic Honesty Statement, the College's Education Department may:

- Refuse to write letters of recommendation
- Refuse to allow a student to student teach
- Refuse to authorize teacher certification

Title II

In accordance with state and federal regulations, Lebanon Valley College regularly reports the aggregate student data to the Pennsylvania Department of Education. HEA—Title II 2012–2013 academic data (the last year of available data) shows the overall pass rate to be 89 percent for all reported assessment categories. This translates to 64 out of 72 LVC students passing all the required exams for certification. Many factors, such as the number of students in the program, number of tests required for licensure, the number of licensure candidates who complete all required exams before graduation, and the number of teacher certification candidates who actually take the licensure exams, affect the overall College scores.

Program Goals

Students completing programs in this department will:

- Demonstrate content knowledge of the curriculum, based in theory and commensurate with the PA Standards/Common Core.
- Communicate effectively in a variety of formats.
- Maintain professional conduct and ethical behavior.
- Manage a learning environment that is safe and conducive to learning.
- Link content to related research-based pedagogy based on sound educational psychology principles in short- and long-range instructional plans.

Education Program

Degree Requirements

There is no major or minor in general education.

Courses in Education (EDU)

EDU 140. Educational Technology and Instructional Media. 3 credits.

EDU 240. Language, Cultural Diversity and Academic Achievement: PreK - Grade 8. 3 credits. [AD]

EDU 245. Language, Cultural Diversity and Academic Achievement: Grade 7 - Grade 12. 3 credits. [AD]

EDU 450. Curriculum and Instruction for the Young Adolescent. 3 credits. [WP]

Early Childhood Education

The Education Department is committed to preparing early childhood education majors who have a thorough grounding in the disciplines they will teach within the context of a strong liberal arts foundation. The program includes intensive training in the content and methodologies of all early childhood education content areas.

The field-centered component in the program requires extensive and carefully sequenced opportunities to work with teachers and children in a variety of school settings during all four years of preparation for teaching. The Education Department has established strong relationships with local public, parochial, and private schools. Depending on the course, majors spend between two and five hours per week each semester in various classrooms, observing teachers and children, aiding, tutoring, providing small-group and whole-class instruction, and completing tasks on increasingly challenging levels of involvement. Student teacher candidates spend the semester immediately preceding the student teaching semester with their assigned cooperating teachers. Seniors spend the fall semester in full-time student teaching with cooperating teachers who have been carefully chosen for that role. Additional opportunities are provided for our students to work in preschools, child care centers, middle schools, and in classes for exceptional children.

Degree Requirements

Degree: Bachelor of Science with a major in early childhood education.

Major: ECE 110, 115, 210, 220, 230, 240, 310, 320, 330, 335, 340, 350, 360, 370, 380, 385, 410 (note: ECE 115 and 385 are not required for special education double-majors); EDU 140, 240; SPE 250, 255; two college-level mathematics courses, an English composition course, and an American or British literature course (75 credits).

Note: Students may graduate with the B.S. degree without completing student teaching. Students who are pursuing teacher certification must also complete 12 credit hours of ECE 440 or ECE 441/SPE 441 Student Teaching in addition to completing all requirements for the major in early childhood education.

Courses in Early Childhood Education

ECE 110. Child Development I. 3 credits.
ECE 115. Child Development II. 3 credits.
ECE 210. Family Partnerships. 3 credits.
ECE 220. Theory and Practices. 3 credits.
ECE 230. Creative Arts. 3 credits.
ECE 240. Literacy and Literature I. 3 credits.
ECE 310. Math Methods. 3 credits.
ECE 320. Program Design and Curriculum Development. 3 credits.
ECE 330. Literacy and Literature II. 3 credits.
ECE 335. Literacy and Literature III. 3 credits. [WP]
ECE 340. Teacher Researcher. 3 credits. [WP]
ECE 350. Child Wellness. 3 credits.
ECE 360. Social Studies Methods. 3 credits.
ECE 370. Play and Projects. 3 credits.

ECE 380. Science Methods. 3 credits.
ECE 385. Advocacy, Leadership, and Collaboration. 3 credits.
ECE 410. Senior Capstone. 3 credits.
ECE 440. ECE Student Teaching. 12 credits.
ECE 441. ECE Dual Major Student Teaching. 6 credits.

Secondary and K–12 Teacher Certification Program

Students pursuing secondary and K–12 teacher certification are prepared for teaching by completing an intensive program in their PDE approved departmental major(s) in conjunction with a carefully sequenced professional education component within the Education Department. Both the major program and the professional education component are completed within the context of a strong foundation in the liberal arts.

Departmental majors may seek secondary certification in, biology, chemistry, English, mathematics, physics, and social studies. K–12 certification is available in French, German, and Spanish. K–12 certification is also available in music; please see the Music Department section for details.

Candidates are provided with opportunities to observe and to teach in junior high, middle school, and high school settings prior to the full-time student teaching semester.

Degree Requirements

There is no major in education for those interested in secondary or K–12 teaching. Students must complete the requirements in their chosen major, including any additional related courses required for certification, and the designated professional education courses.

Degree: Bachelor of Arts or Bachelor of Science in the chosen major. (Majors: biology, chemistry, English, French, German, history [social studies], mathematics, physics, politics [social studies], and Spanish).

Secondary and K-12 Teacher Certification: Students must meet all Act 354 and Act 49-2 requirements outlined in the beginning of this section, complete the approved program in the chosen major and 33 credits in education courses, consisting of SED 115, EDU 245 (students seeking K–12 certification may take EDU 240 instead of 245), SPE 250, SPE 255, SED 421, SED 431, SED 440, and the appropriate content methods class SED 361, SED 362, SED 363, SED 364, SED 365, or SED 366. Three credits of special education content are infused in secondary education coursework. Because students who transfer to LVC may not have been exposed to this content, they may also be required to take SPE 258 in addition to the other courses listed. SED 431 must be taken in the fall or spring semester immediately preceding the student teaching semester.

Courses in Secondary Education

SED 115. Introduction to Teaching and Learning. 3 credits.
SED 362. Teaching of the Sciences in the Secondary Schools. 3 credits.
SED 363. Teaching of Social Sciences in the Secondary Schools. 3 credits.
SED 364. Teaching of English in the Secondary Schools. 3 credits.
SED 365. Teaching of Second Languages in Schools. 3 credits.

SED 366. Teaching of Mathematics in the Secondary Schools. 3 credits.
SED 421. Content Area Literacy. 3 credits.
SED 430. Practicum and Methods I. 3 credits.
SED 431. Practicum and Methods II. 3 credits.
SED 440. Student Teaching. 12 credits.

Special Education PreK–Grade 8 Program

The Special Education Program consists of nine courses plus three credits of infused coursework in ECE courses and, according to the Pennsylvania Department of Education's regulations, may only be taken as a dual major with the PreK–Grade 4 early childhood education. Student teaching experiences are provided in two settings: one in a regular school setting and the second in a special education setting. Program graduates are certified to teach in early childhood education programs and in special education in the PreK to grade 8 grade levels.

Degree Requirements

Degree: Bachelor of Science in early childhood education. Students choosing to major in special education (PreK–8) must dual major in early childhood education (PreK–4).

Major: SPE 250, 255, 260, 263, 266, 269, 360, 363, 366 (27 credits, plus three credits of infused special education content in required ECE coursework).

Note: Students may graduate with the B.S. degree without completing student teaching. Students who are pursuing teacher certification must also complete 12 credit hours of ECE 441/SPE 441 Student Teaching in addition to completing all requirements for the major in special education and early childhood education.

Courses in Special Education

SPE 250. Cognitive Development of Diverse Learners. 3 credits. [WP]
SPE 255. Special Education Processes and Procedures. 3 credits.
SPE 258. Effective Instructional and Behavioral Strategies for Students with Disabilities. 3 credits.
SPE 260. Evidenced Based Effective Instruction in Educating Students Identified with a High Incidence Disability. 3 credits.
SPE 263. Intensive Math and Content Area Intervention Approaches. 3 credits.
SPE 266. Evidenced Based Effective Instruction in Intervention Approaches Educating Students Identified With a Low Incidence Disability. 3 credits.
SPE 269. Positive Behavioral Supports – Evidence Based Behavioral Intervention and Prevention. 3 credits.
SPE 360. Intensive Language Arts Intervention Approaches. 3 credits.
SPE 363. Assessment in Special Education. 3 credits.
SPE 366. Collaboration and Communication – Advocacy, Leadership, and Ethical Practice. 3 credits.
SPE 441. ECE Special Education Student Teaching. 6 credits.

For additional information about this program, including faculty and full course descriptions, please visit www.lvc.edu/education.

DEPARTMENT OF ENGLISH

English Program

The major in English at Lebanon Valley College advances the key goals of a liberal arts education by teaching students to ask probing questions about a wide range of texts and to appreciate the variety of creative accomplishments in the English language. While majors may choose to concentrate in literature, communications, creative writing, theater or secondary education, the basis for all concentrations is the study of literature: imaginative, complex, and challenging texts in a variety of genres and media. All majors learn the skills of clear, concise, and correct expression as well as effective collection, organization, and presentation of material. Such study prepares students for graduate work in their area of interest or for professional study in such fields as law and theology. Graduates of the Department of English also are prepared to work in publishing, teaching, editing, public relations, journalism, advertising, marketing, theater, business, and other professions.

Independent Study: Juniors and seniors with a minimum 2.00 GPA who wish to study an in-depth topic may choose to pursue an independent study. For every semester hour of credit, the student must complete at least 45 clock hours of time working on what should ultimately result in a final formal document. Students are responsible for completing the necessary application forms (available in the Registrar's Office) and finding a professor to oversee their progress.

Students may enroll in a maximum of three credit hours per independent study in any one semester. A maximum of six credit hours in independent study may be used toward the graduation requirements.

Departmental Honors: English majors with a minimum 3.0 cumulative GPA and 3.50 major GPA at the beginning of their junior year may choose to apply for departmental honors in conjunction with an independent study. Details are available on the English Department web page.

The English Department offers minors in literature, communications, creative writing, and theater. Note: A student may pursue no more than two concentrations within the department. In addition, a student may pursue no more than one minor within the department.

Program Goals

Students completing this program will develop:

- Critical Thinking
  - (1) Students will demonstrate ability to analyze and interpret complex issues.
  - (2) Students will demonstrate ability to analyze context and assumptions.
- Effective Oral and Written Communication
  - (1) Students will demonstrate ability to construct a clear and effective thesis.
  - (2) Students will demonstrate ability to discern authoritative sources and utilize them effectively in their writing.
  - (3) Students will demonstrate ability to effectively convey ideas through oral communication.

- Critical Reading
  (1) Students will demonstrate ability to comprehend complex texts and draw inferences from what they read.
  (2) Students will demonstrate ability to analyze complex texts and synthesize the information therein.

Degree Requirements

Degree: Bachelor of Arts with a major in English.

Major: Core requirements: ENG 120; two from 221–228 (at least one of the two must be 221 or 225); 321; 341 or 342 (15 credits). Students must choose one of the concentrations below in addition to the core.

Literature concentration: Three additional survey courses (ENG 221–228; two of the five courses must be 221 and 225); 370, 499; four from among 150, 341 or 342 (not taken in the core), 351, 352, 375, 391, 420, 421, 451 (24 credits).

Communications concentration: ENG 099, 140; six additional communications courses, at least two of which must be at the 300 level (150, 201, 202, 213, 217, 314–319, 375, 380, 392); at least three credits of 400 (24 credits).

Creative Writing concentration: ENG 150, 219 (taken twice—once in poetry, once in fiction—for six credits), 319, 450; four from among 180, 201, 202, 217, 318, 341 or 342 (not taken in the core), 351, 352, 375, 391, 393, 420, 421, 451 (24 credits).

Theater concentration: ENG 180; 201, 202, 204; three credits of 301; three additional drama-related courses from among the following: 217, 301 (three credits), 341 or 342, 375, 391, three credits of 400 (24 credits).

Secondary Education concentration: Two additional survey courses from ENG 221–228 (the total of four surveys must include at least three from 221–226); 201; 213; three from among 334, 341 or 342 (not taken in the core), 351, 352, 375, 391, 420, 421 (21 credits). Certification candidates must also complete 33 credits in additional required coursework. See the Education Department section on pages 65–66 for additional information.

Minor (Literature): ENG 120; 221 or 222; two from 225–228; three additional 300 or 400-level literature courses (21 credits).

Minor (Communications): ENG 120, 140, 221 or 222; four additional 200- or 300- level communications courses (21 credits).

Minor (Creative Writing): ENG 120, 150, 219 (taken twice—once in poetry, once in fiction—for six credits), 319; two additional 300 or 400-level literature courses (21 credits).

Minor (Theater): ENG 120, 180, 204; one from 201 or 202, or three credits of 301; 341 or 342; six additional credits to be selected in consultation with the student's adviser (21 credits).

Courses in English

ENG 099. Internship Portfolio. 0 credits.
ENG 111. English Communications I. 3 credits. [EC]
ENG 112. English Communications II. 3 credits. [EC]
ENG 120. Introduction to Literature. 3 credits. [L5]
ENG 126. Elements of Writing. 2 credits. [WP]
ENG 140. Introduction to Media in the Digital Age. 3 credits.
ENG 150. Introduction to Creative Writing. 3 credits. [WP]
ENG 180. Introduction to Theater. 3 credits. [L5]
ENG 201. Basic Acting. 3 credits.
ENG 202. Advanced Acting. 3 credits.
ENG 204. Theater Production and Performance. 3 credits.
ENG 213. Journalism: News Reporting. 3 credits. [WP]
ENG 217. Multimedia Narratives. 3 credits.
ENG 219. Creative Writing Workshop. 3 credits.
ENG 221. Survey of American Literature I. 3 credits. [L5]
ENG 222. Survey of American Literature II. 3 credits. [L5]
ENG 225. Survey of English Literature I. 3 credits. [L5]
ENG 226. Survey of English Literature II. 3 credits. [L5]
ENG 227. Survey of World Literature I. 3 credits. [L5]
ENG 228. Survey of World Literature II. 3 credits. [L5]
ENG 301. Acting Lab. 1 credit.
ENG 314. Public Relations in the Digital Age. 3 credits.
ENG 315. Editing. 3 credits. [WP]
ENG 316. Journalism in the Digital Age. 3 credits.
ENG 317. Multimedia Feature Writing. 3 credits.
ENG 318. Persuasive Communications. 3 credits.
ENG 319. Craft of a Genre. 3 credits.
ENG 321. History and Grammar of the English Language. 3 credits.
ENG 334. Adolescent Literature. 3 credits. [WP]
ENG 341. Shakespeare I. 3 credits. [WP]
ENG 342. Shakespeare II. 3 credits. [WP]
ENG 351. Poetry. 3 credits. [WP]
ENG 352. The Novel. 3 credits. [WP]
ENG 370. Literary Theory and Its Applications. 3 credits.
ENG 375. Film. 3 credits. [L5]
ENG 380. Politics and Media in the Digital Age. 3 credits.
ENG 390. Special Topics. 3 credits.
ENG 391. Special Topics in Literature. 3 credits.
ENG 392. Special Topics in Communications. 3 credits.
ENG 393. Special Topics in Creative Writing. 3 credits.
ENG 400. Internship. 1-3 credits.
ENG 420. African-American Literature. 3 credits. [AD]
ENG 421. Literature by Women. 3 credits. [AD]
ENG 450. Creative Writing Portfolio. 0 credits.

ENG 451. Postcolonial/Anglophone Literature. 3 credits. [WP]
ENG 499. Literature Capstone. 0 credits.

For additional information about this program, including faculty and full course descriptions, please visit www.lvc.edu/english.

DEPARTMENT OF HISTORY, POLITICS, AND GLOBAL STUDIES

The Department of History, Politics, and Global Studies seeks to help students on their path to enjoying an intellectually rich life and a successful career, and to providing service to others. The study of history and politics is essential to understanding American society and government and our relationships with diverse communities around the globe. This knowledge is essential for students to understand the realities of the world that they were born into, the values that they inherit and adopt, and the planet that they will help to make. The department helps to promote critical skills in reading and thinking to improve students' written and spoken communication. The department is committed to ensuring that all of its majors are prepared to handle the challenges they will face in their careers, whether their training is in political science, international studies, law, history, historical communications, or secondary education.

Secondary Education Certification

The department offers two programs, taken in conjunction with either the history or political science major, for students seeking certification to teach in the secondary schools: citizenship education or social studies. These programs include three required components: the citizenship education or social studies core, the secondary education core (described in the Education Department section on pages 67-68), and a major in history or politics (described below). Dr. James H. Broussard is the coordinator of the citizenship education and social studies certification program.

Citizenship education core courses: ECN 105; H1S 103, 105, 125, 126, 202; POL 110, 210, 245, an upper division course in American government. (33 credits).

Social Studies core courses: ECN 105; EDU 450; H1S 103, 105, 125, 126, 202; POL 110, 210, 245; an upper division course in American government; PSY 112; SOC 110, 120 (42 credits).

History Program

By examining human behavior in the past, the study of history can help people better understand themselves and others. Students of history also learn how to gather and analyze information and present their conclusions in clear, concise language.

An undergraduate degree in history can lead to a career in teaching at the

college or high school level, law, government, politics, the ministry, museums and libraries, journalism or editing, historical societies and archives, historical communications, or a number of other professions.

Program Goals

Students completing this program will:

- Possess basic foundation knowledge.
- Be critical thinkers.
- Be effective communicators.
- Be proficient researchers.

Degree Requirements

Degree: Bachelor of Arts with a major in history.

Major: HIS 250, 499; four 3 credit 100 level courses. Six electives at the 200 level or above; two must be non-U.S.; two must be 300 level; elective courses can count towards two requirements. 36 credits.

Minor: HIS 250; three 3-credit, 100-level courses. Three upper division electives, one of which must be at the 300 level, one of which must be non-U.S. 21 credits.

Historical Communications Program

The History Department offers a historical communications program in conjunction with the English Department, described on page 71. The major in historical communications is an interdisciplinary program that provides the opportunity for interested students to engage in a comprehensive study of both history and communications and their interconnectedness. The program is designed to prepare students for professional research, writing, and editing positions in such fields as radio, television, motion pictures, cable, popular history magazines, theatrical history, and oral history. Lebanon Valley College is one of the very few colleges to offer such a major.

Degree Requirements

Degree: Bachelor of Arts with a major in historical communications.

Major: ENG 140, 213; HIS 250, 400; HIS 460 or 499; three 3-credit, 100-level HIS courses. Three HIS electives, including one at the 300 level and two non-U.S. courses. Three additional electives (9 credits) drawn from: BUS 285; DCOM 130, 290, 390; ENG 217, 314, 315, 316, 317, 318, 380; or approved special topics courses. 42 credits.

Courses in History

HIS 103. The Ancient World: the Dawn of Civilization to the Fall of the Han and Roman Empires. 3 credits. [L1]

HIS 104. The Second Age of Empires: World History From the Fall of Rome to the Mongol Invasions. 3 credits. [L1]

HIS 105. Formation of the Modern World. 3 credits. [L1]

HIS 125. United States History to 1865. 3 credits. [L1]

HIS 126. United States History Since 1865. 3 credits. [L1]
HIS 202. Historical Geography. 3 credits.
HIS 206. Revolution and Nationalism. 3 credits. [WP]
HIS 207. Europe in the 20th Century. 3 credits. [L1, WP]
HIS 210. The History of Modern France, 1750 to the Present. 3 credits. [L1]
HIS 215. Law and Government. 3 credits. [L2, WP]
HIS 217. Women in Modern Europe, 1750 to the Present. 3 credits. [L1, WP]
HIS 220. Colonial America: a History in Red, White, and Black. 3 credits. [AD]
HIS 226. Age of Jefferson and Jackson. 3 credits. [L1, WP]
HIS 230. Electing the President. 3 credits.
HIS 240. American Military History. 3 credits. [L1]
HIS 241. Working-Class Studies. 3 credits. [AD]
HIS 250. The Historian's Craft. 3 credits. [WP]
HIS 275. Modern Latin America. 3 credits. [ID]
HIS 301. Evolution for Everyone. 3 credits. [DP]
HIS 303. Seminar on the History of South Africa. 3 credits. [ID]
HIS 304. Seminar on the History of Brazil. 3 credits. [ID]
HIS 305. History of Mexico. 3 credits. [ID]
HIS 310. Seminar on World War I. 3 credits. [WP]
HIS 312. The American Revolution. 3 credits. [WP]
HIS 315. The Civil War. 3 credits. [WP]
HIS 330. The Ruling Class. 3 credits. [AD]
HIS 400. Internship. 1-12 credits.
HIS 460. Undergraduate Research. 1-6 credits.
HIS 499. Senior Seminar in History. 3 credits. [WP]

Global Studies Program

Global studies is an interdisciplinary program challenging students to synthesize research in contemporary global politics, economics, and society with study abroad, foreign language, and global learning experiences (collaborative undergraduate research, internships, community-engaged learning, and global independent study). The Global Studies Program rests on the concept of "interconnectedness" or the ability to discern global/local connections, appreciate the commonalities humans share, and to contend with the broad array of contemporary global actors shaping and transforming the world.

Global studies majors and minors are required to participate in at least one approved non-U.S., off-campus program offered by the LVC Center for Global Education. This may include a full semester of study abroad or an approved alternative program, such as full semester-exchange programs, mini-terms (4 to 8 weeks), short-term (4 weeks), or summer programs that may or may not be led by LVC faculty. Courses taken in off-campus programs can be accepted for credit to the major, although approval for such credit is contingent on equivalent courses in the LVC catalog. For a list of approved off-campus programs, please see the Center for Global Education section.

Majors and minors are also required to complete a community-engaged learning project in GLB 101. Students who declare the global studies major or minor after the completion of GLB 101 are required to complete a community-based project in another required course for the major.

Global studies students will be prepared for careers in college/university global education administration, non-governmental organizations, inter-governmental organizations, global corporations, international economics, governments, academia and law, journalist, and social advocacy, as well as for graduate and law school programs. Job prospects include: international student coordinator, study abroad director, diplomat, international economist, international development program analyst/activist, human rights activist, international lawyer, translator, global trade specialist, global affairs analyst, foreign service officer/analyst, social media coordinator, immigration/customs analyst/officer, Peace Corps worker, public health analyst, and sustainability/environmental researcher.

Program Goals

Students completing this program will:

- Synthesize concepts from courses with skills developed in deeper learning experiences (Integration);
- Engage with global institutions, processes, and systems as well as transcend exposure by culturally engaging with others to become globally informed citizens aware of difference and inclusion (Global Learning);
- Develop and express ideas in writing and delivering purposeful oral presentation to increase global knowledge and foster an understanding of the world (Communication);
- Analyze academic texts, read unfamiliar information, and critically link concepts with issues and controversies (Critical Thinking) and;
- Know when there is a need for appropriate information and identify, evaluate, and responsibly share that information to address global problems and issues (Information Literacy).

Degree Requirements

Degree: Bachelor of Arts with a major in international studies.

Major: GLB 101, 499; ECN 101, 102; ECN 322 or 331; SOC 110, 240; POL 245, 370; one course from: POL 207, 210, 275, 312, 313, 314, 392; 6 credits of language at the 300-level or above; a study abroad experience of at least four weeks' duration; three from the following, for a minimum of 3 credits each: GLB 400, 460, 500 (project), 500 (honors), POL 380 (45 credits).

Minor: GLB 101; ECN 101, 102; POL 245; SOC 110, 240; 6 credits of language at the 300-level or above; a study abroad experience of at least four weeks' duration (21 credits).

Courses in Global Studies

GLB 101. Magnitudes and Dimensions of Globalization. 3 credits. [L2]
GLB 400. Internship. 1-3 credits.
GLB 460. Collaborative Undergraduate Research. 1-3 credits.
GLB 500. Independent Study. 1-3 credits.
GLB 499. Synthesizing the Global Experience. 3 credits. [WP]

Politics Program

Students who major in politics take courses to give them a thorough understanding of the American political system, the political systems of other nations, and international politics. Required classes and experiences fall into four areas: Knowledge of the discipline, tools for effective American citizenship, tools for effective global citizenship, and the practice of politics.

A degree in politics opens the door to a wide variety of careers. Politics majors have become lawyers, high school and junior high school teachers, college professors, journalists, law enforcement officers, business people, consultants, lobbyists, and government officials. The politics major is an integral component of the Pre-law, Criminal Justice, and Social Studies secondary teacher certification programs.

Program Goals

Students completing this program will:

- Develop critical thinking skills.
- Develop strong written and oral communication skills.
- Understand the role of politics in a diverse world.
- Develop an understanding of how political scientists practice their craft.

Degree Requirements

Degree: Bachelor of Arts with a major in politics.

Major: POL 200, 345, 370, 499 (12 credits); four courses from the following options, with at least one at the 300-level or higher: POL 110, 252, 256, 391, either 101 or 230, one of LAW 215, 316, or 499, or an approved course in U.S. politics taken abroad (12 credits); four courses from one of the following options, with at least one at the 300-level or higher: ECN 102, POL 207, 210, 245, 392, one of POL 312, 313, or 314, or either POL 275 or an approved course in non-U.S. politics taken abroad (12 credits); and three distinct experiences from the following: POL 380, POL 400 or LAW 400 (3 credits), POL 460 (3 credits), POL 500/honors in politics (6 credits), a study abroad experience of at least four weeks' duration, and a conference presentation (6-12 credits) (42-48 total credits).

Minor: POL 200; two courses from the following options: POL 110, 252, 256, 345, 391, either 101 or 230, or one of LAW 215, 316, or 499 (6 credits); two courses from one of the following options: POL 207, 210, 245, 392, 499, one of POL 312, 313, or 314, or either POL 275 or an approved course in non-U.S. politics taken abroad (6 credits); one additional course from the above options

(3 credits; and one experience from the following: POL 380, POL or LAW 400 (3 credits), POL 460 (3 credits), POL 500/honors in politics (6 credits), a study abroad experience of at least four weeks' duration, and a conference presentation (0-6 credits) (18-24 total credits).

Courses in Politics

POL 101. Controversies in Contemporary Politics. 3 credits. [L2]
POL 110. The Architecture of American Power. 3 credits. [L2]
POL 200. The Discipline of Political Science. 3 credits.
POL 207. Europe in the 20th Century. 3 credits. [L1, WP]
POL 210. Comparative Politics. 3 credits. [ID]
POL 230. Electing the President. 3 credits.
POL 245. Conceptions of Global Power and World Politics. 3 credits. [WP]
POL 252. Public Administration and the Crafting Of Policy. 3 credits. [L2]
POL 256. Power of the People. 3 credits.
POL 275. Understanding Human Rights. 3 credits.
POL 312. American Foreign Policy. 3 credits. [WP]
POL 313. Contemporary Global Security. 3 credits. [WP]
POL 314. Global Politics of Wealth and Poverty. 3 credits. [WP]
POL 316. Civil Liberties and Civil Rights. 3 credits. [AD, WP]
POL 345. The Philosophical Foundations of Politics. 3 credits. [WP]
POL 370. Conduct of Political Inquiry. 3 credits.
POL 380. EU Simulation. 3 credits. [DP]
POL 391. Special Topics in U.S. Politics. 3 credits.
POL 392. Special Topics in Global Politics. 3 credits.
POL 400. Internship. 1-12 credits.
POL 450. Politics Conference Presentation. 0 credits.
POL 460. Undergraduate Research. 1-6 credits.
POL 499. Seminar in Politics. 3 credits. [WP]

Law and Society Program

The department offers a law and society minor that can be taken alongside any major at LVC. The minor is an interdisciplinary program that introduces students to the American legal system through a study of the United States Constitution and its normative and political context. The program is expected to be of particular use to those students who intend to apply to law school. An internship and a capstone seminar in legal foundations are required for this minor.

Minor: PHL 280, LAW/POL 316, LAW 400 (3 credits), LAW 499/PHL 417; one course from LAW/HIS 215, BUS 371, DCOM 311; one course from PHL/POL 345, DSP 352, DSP 356, BUS 450 (18 credits).

Courses in Law:
LAW 215. Law and Government. 3 credits. [L2, WP]
LAW 316. Civil Liberties and Civil Rights. 3 credits. [AD, WP]
LAW 400. Internship. 1-12 credits.
LAW 499. Seminar in Law. 3 credits. [WP]

For additional information about these programs, including faculty and full course descriptions, please visit www.lvc.edu/history-political-science.

DEPARTMENT OF LANGUAGES

The Languages Department endeavors to produce graduates who are prepared to engage the diverse, multicultural, and multilingual world by fostering the study of languages and improving cross-cultural competency among students. The Department of Languages prepares its majors for a career in a variety of fields: teaching, diplomatic and government service, world trade, business, and social service. For many of these careers students combine the study of a language with a major in another discipline.

The department encourages students to take advantage of the College's opportunities for travel and study, particularly Lebanon Valley College programs in Berlin and Würzburg, Germany; Montpelier, France; Valladolid, Spain; Santiago and Santo Domingo, Dominican Republic; Buenos Aires, Argentina; and Perugia, Italy.

The Department of Languages offers the major in French, German, and Spanish; secondary teacher certification in French, German, and Spanish; a minor in French, German, and Spanish; and Italian at the elementary and intermediate (conversational) level.

Program Goals
Students who graduate with a major in the Languages Department:
- Communicate effectively through proficiency in speaking, reading, comprehension, and writing.
- Demonstrate cultural proficiency and by establishing connections between cultures and through exposure to speakers and literature of the language under study.
- Are prepared to use the language for graduate study or professional work.

Teacher Certification

In addition to majoring in a language, students seeking certification to teach a language must take and complete 33 credits in additional required coursework. See the Education Department section on pages 65-66 for additional information.

French Program

Degree Requirements

Degree: Bachelor of Arts with a major in French.

Major: 29 credits in French above the intermediate level; at least 6 credits must be in 400-level writing process courses. At least 14 credits must be obtained at LVC. The 29 credits must include FRN 299, 300, 310, and 480. Students may complete some of these core requirements abroad. At least 6 credits at the 300-level or above must be completed in a French-speaking country.

Minor: 18 credits in French above the elementary level, including at least one course from FRN 300 or 310.

Our program in Montpellier, France, is designed for students with varying abilities in French. This program is located at the University of Montpellier in southern France near the Mediterranean Sea. Students are placed in courses at a level appropriate to their skills. All courses are in French.

Courses in French

FRN 101. Elementary French I. 3 credits. [LA]
FRN 102. Elementary French II. 3 credits. [LA]
FRN 201. Intermediate French I. 3 credits. [LA]
FRN 202. Intermediate French II. 3 credits. [LA]
FRN 299. Orientation to Study in a French- Speaking Country. 1 credit.
FRN 300. Advanced Oral Communication. 3 credits.
FRN 310. Advanced Grammar and Writing. 3 credits. [WP]
FRN 330. Introduction to French and Francophone Literature. 3 credits. [L5]
FRN 350. History and Culture of France. 3 credits.
FRN 360. History and Culture of Francophone World Countries. 3 credits. [ID]
FRN 375. French and Francophone Film. 3 credits. [DP]
FRN 380. Global Issues in French and Francophone Societies. 3 credits. [DP]
FRN 405. Authors and Movements in French Literature. 3 credits. [L5, WP]
FRN 440. Contemporary French and Francophone Lit. 3 credits. [L5, WP]
FRN 450. Themes and Genres in French Literature. 3 credits. [L5, WP]
FRN 480. Capstone Senior Seminar in French. 1 credit. [WP]

German Program

Degree Requirements

Degree: Bachelor of Arts with a major in German.

Major: 29 credits in German above the intermediate level; at least 6 of these credits must be designated as writing process. At least 14 credits must be obtained at LVC. The 29 credits must include GMN 299, 300, 310, and 480. Students may complete some of these core requirements abroad. At least 6 credits at the 300-level or above must be completed in a German-speaking country.

Minor: 18 credits in German above the elementary level, including at least one course from GMN 300 or 310.

Our program in Berlin, Germany, allows students to complete 8 credits of intermediate or advanced German in one semester. Students also enroll in courses in German civilization taught in English. The program in Würzburg is an intensive, one-month program in the summer for 4 credits. Students must have completed the intermediate level as all instruction is in German.

Courses in German

GMN 101. Elementary German I. 3 credits. [LA]
GMN 102. Elementary German II. 3 credits. [LA]
GMN 201. Intermediate German I. 3 credits. [LA]
GMN 202. Intermediate German II. 3 credits. [LA]
GMN 299. Orientation to Study in a German- Speaking Country. 1 credit.
GMN 300. Advanced Oral Communication. 3 credits.
GMN 305. Summer Study in Germany. 4 credits. [ID]
GMN 310. Advanced Grammar and Writing. 3 credits. [WP]
GMN 330. Introduction to German Literature. 3 credits. [L5, WP]
GMN 345. Introduction to German Linguistics. 3 credits.
GMN 350. German Culture and Civilization. 3 credits.
GMN 375. German-Language Film. 3 credits. [DP]
GMN 380. Global Issues in German-Speaking Societies. 3 credits. [DP]
GMN 410. Readings in German. 3 credits. [L5, WP]
GMN 440. German in Pennsylvania. 3 credits. [L5, WP]
GMN 460. Themes and Genres in German Literature. 3 credits. [L5, WP]
GMN 480. Capstone Senior Seminar in German. 1 credit. [WP]

Italian Program

The department offers elementary Italian on campus and elementary and intermediate Italian through our program in Perugia, Italy. Students study at the Umbra Institute, earn 6 credits in the Italian language and 9 credits through courses in Italian civilization and culture taught in English.

Courses in Italian

ITA 101. Elementary Italian I. 3 credits. [LA]
ITA 102. Elementary Italian II. 3 credits. [LA]
ITA 205. Italian Conversation I. 1 credit.
ITA 206. Italian Conversation II. 1 credit.

Spanish Program

Degree Requirements

Degree: Bachelor of Arts with a major in Spanish.

Major: 30 credits in Spanish above the intermediate level; at least 9 credits must be in 400-level writing process courses. At least 15 credits must be obtained at LVC. The 30 credits must include SPA 300 or 311; 310, 330, 350, 360, and 480. Students may complete some of these core requirements abroad. At least 6 credits at the 300-level or above must be completed in a Spanish-speaking country.

Minor: 18 credits in Spanish above the elementary level, including at least one of the following: SPA 300, 310, or 311.

Our program in Spain is located in Valladolid, capital of the state of Castile-León. Students take courses at the advanced level in Spanish language, history, civilization, economics, and art at the Universitas Castellae, a private institute specializing in teaching university students from other countries. In Argentina, our program is offered in cooperation with the Fundación José Ortega y Gasset in Buenos Aires, which provides Spanish language courses at the beginning, intermediate, and advanced levels. Students may also enroll here in courses taught in English.

Courses in Spanish

SPA 101. Elementary Spanish I. 3 credits. [LA]
SPA 102. Elementary Spanish II. 3 credits. [LA]
SPA 201. Intermediate Spanish I. 3 credits. [LA]
SPA 202. Intermediate Spanish II. 3 credits. [LA]
SPA 300. Advanced Oral Communication. 3 credits.
SPA 310. Advanced Grammar and Writing. 3 credits. [WP]
SPA 311. Spanish for Heritage Speakers. 3 credits. [AD]
SPA 330. Introduction to Literature. 3 credits. [L5]
SPA 345. Introduction to Spanish Linguistics. 3 credits.
SPA 350. History and Culture of Spain. 3 credits.
SPA 360. History and Culture of Latin America. 3 credits. [ID]
SPA 431. Latinos in the United States. 3 credits. [AD, WP]
SPA 440. Spanish Literature of the 20th and 21st Centuries. 3 credits. [L5, WP]
SPA 445. Caribbean Literature and Culture. 3 credits. [L5, WP]
SPA 450. Modern Latin American Literature and 21st Centuries. 3 credits. [L5, WP]
SPA 480. Capstone Senior Seminar in Spanish. 3 credits. [L5, WP]

Classical Languages

The following are offered through the department of Religion and Philosophy:

Courses in Classical Greek (GRK)
GRK 101. Elementary Classical Greek I. 3 credits. [LA]
GRK 102. Elementary Classical Greek II. 3 credits. [LA]

Courses in Latin (LAT)
LAT 101. Elementary Latin I. 3 credits. [LA]
LAT 102. Elementary Latin II. 3 credits. [LA]

Courses in Sanskrit (SKT)
SKT 101. Elementary Sanskrit I. 3 credits. [LA]
SKT 102. Elementary Sanskrit II. 3 credits. [LA]

For additional information about these programs, including faculty and full course descriptions, please visit www.lvc.edu/languages.

DEPARTMENT OF MATHEMATICAL SCIENCES

The Lebanon Valley College Department of Mathematical Sciences has long offered a rigorous mathematics program within the context of a liberal arts education. The increasing national need for mathematically prepared individuals makes our program even more attractive today. Actuaries, computer programmers, mathematics and computer science teachers, operations research analysts, and statisticians are in high and continuing demand. In addition, the mental discipline and problem solving abilities developed in the study of mathematics are excellent preparation for numerous and varied areas of work and study.

The department offers majors in actuarial science, computer science, and mathematics; secondary teaching certification in mathematics; and minors in mathematics and computer science.

Departmental graduates have earned doctorates in economics, physics, statistics, and computer science as well as mathematics. Other graduates have completed law school. Many graduates have earned the designation of Fellow of the Society of Actuaries or of the Casualty Actuarial Society.

Mathematical Sciences Department majors are active in student government, athletics, musical organizations, and other activities. There is an active Math Club that annually sponsors a Quiz Bowl for local high school students and a Math Olympics for fifth graders.

The Mathematical Science Department also directs the computer engineering track in the 3+2 Engineering Program. For details, see Cooperative Programs on page 39.

Program Goals

Students completing programs in this department should be able to:

- Read with precision for understanding.
- Explore and analyze a problem.
- Synthesize a solution to a problem.
- Produce clear, precise writing to create a logically sound line of reasoning.

Mathematics Program

The mathematics major is the cornerstone of the program in the Department of Mathematical Sciences. Each faculty member in the department has a doctorate in some area of mathematics. Operations research analyst, manager business analysis, computer analyst, and secondary school teacher are job descriptions of some recent graduates. Other graduates have chosen to use mathematics as preparation for graduate school in areas such as economics, management, operations research, and statistics, as well as mathematics.

Degree Requirements

Degree: Bachelor of Science with a major in mathematics.

Major: MAS 099, MAS 111, 112, 113, 114, 202, 222, 251, 261, plus five MAS courses numbered 200 or above, including at most one of MAS 266, 270 or ASC 385; at least four of MAS 311, 322, 325, 335, 371, 372, 390; and at least one of MAS 311 or 322. A 400 1evel ASC course may substitute for 335 and ASC 385 may substitute for MAS 266 or MAS 270 (37 credits).

Mathematics majors are advised to take at least one computer science course or have equivalent experience.

Minor: MAS 161 and 162 or MAS 111 and 112; MAS 222, and either MAS 251 or 202; three courses from CSC 131 or MAS courses numbered 200 or higher. One ASC course may be substituted for one of the elective 200 or higher level math courses. (21 credits).

Secondary Teacher Certification: Students seeking secondary certification in mathematics must complete: a mathematics major including MAS 270 or MAS 372; MAS 322, 325; and CSC 131. Certification candidates must also complete 33 credits in additional required coursework. See the Education Department section on pages 65-66 for additional information.

Courses in Mathematics

MAS 099. Presentation Attendance. 0 credits.
MAS 100. Concepts of Mathematics. 3 credits. [L4]
MAS 102. Pre-Calculus. 3 credits.
MAS 111. Analysis I. 4 credits. [L4]
MAS 112. Analysis II. 4 credits. [L4]
MAS 113. Introduction to Mathematical Thinking I. 1 credit.
MAS 114. Introduction to Mathematical Thinking II. 1 credit.
MAS 150. Finite Mathematics. 3 credits. [L4]

MAS 161. Calculus I. 3 credits. [L4]
MAS 162. Calculus II. 3 credits. [L4]
MAS 170. Elementary Statistics. 3 credits. [L4]
MAS 202. Foundations of Mathematics. 3 credits.
MAS 222. Linear Algebra. 3 credits.
MAS 251. Discrete Mathematics. 3 credits.
MAS 261. Calculus III. 3 credits.
MAS 266. Differential Equations. 3 credits.
MAS 270. Intermediate Statistics. 3 credits. [L4]
MAS 311. Real Analysis. 3 credits.
MAS 322. Abstract Algebra. 3 credits.
MAS 325. Geometry. 3 credits.
MAS 335. Operations Research. 3 credits.
MAS 371. Mathematical Probability. 3 credits.
MAS 372. Mathematical Statistics. 3 credits.
MAS 390. Special Topics. 3 credits.
MAS 500. Independent Study. 1-3 credits.

Actuarial Science Program

Actuaries are business professionals who use expertise in mathematics, economics, finance, and management to define, analyze, and solve financial and social problems. Actuaries are employed by insurance companies, consulting firms, pension/benefit consulting firms, large corporations, and federal and state government agencies. Actuarial credentials, which are earned after obtaining a bachelor's degree, result from completing the rigorous education and examination program administered by either the Casualty Actuarial Society or the Society of Actuaries.

The Actuarial Science Program at Lebanon Valley College is among the best in the nation. We started the major more than 40 years ago and include among our graduates 70 Fellows and 43 Associates of the actuarial societies, as well as more than two dozen enrolled actuaries. The program is led by Professor Patrick Brewer.

The College's actuarial curriculum is continuously updated so that it covers the material on the first four examinations of the actuarial societies' education programs.

The rigorous standards of the program, including the required passing of at least one actuarial examination, has resulted in a nearly 100 percent placement record of Lebanon Valley College actuarial science graduates in professional actuarial positions.

Degree Requirements

Degree: Bachelor of Science degree with a major in actuarial science.

Major: ASC 281, 385, and two from 386, 472, 481, 482; CSC 131 or 220; MAS 111, 112, 113, 114, 202, 261, 371, 372; ECN 101, 102; ACT 161 (49 credits). The Course P/Part 1 or Course FM/Part 2 examination of the Society of Actuaries/ Casualty Actuarial Society must be passed before senior standing is reached.

Courses in Actuarial Science

ASC 281. Probability for Risk Management. 3 credits.
ASC 385. Mathematics of Finance I. 3 credits.
ASC 386. Mathematics of Finance II. 3 credits.
ASC 472. Loss Distributions and Credibility Theory. 3 credits.
ASC 481. Actuarial Mathematics I. 3 credits.
ASC 482. Actuarial Mathematics II. 3 credits.

Computer Science Program

Computer science (CS) is the study of what can be done with machines. This discipline is part mathematics, part engineering, part philosophy, part linguistics, and part experimental science (without all the mess).

Our computer science curriculum is distinguished primarily by two characteristics. The first is our emphasis on computer programming. The first six CS courses are primarily about programming, and programming plays an important role in most of the advanced courses. This emphasis develops strong analysis and problem-solving skills.

The second characteristic of the computer science major is its decidedly mathematical nature. Our students take 19 credits of mathematics (seven courses), more than is typical of undergraduate CS programs. This math foundation gives our students an analytical background that applies broadly in their CS coursework, helping them become better programmers and analysts.

Degree Requirements

Degree: Bachelor of Science with a major in computer science.

Major: CSC 131, 132, 231, 232, 331, 332; two of 441 , 442, 448, 451, 452, 481, 482; either 400 or 500; MAS 111, 112, 113, 114, 222, 251, plus one additional MAS course numbered 200 or higher; BUS 285 (49 credits).

Minor: CSC 131, 132, 231, 232, and one CSC course numbered 300 or above; MAS 111 or 161, and MAS 112 or 162 or 270 (21 credits).

Courses in Computer Science

CSC 131. Introduction to Programming (with Java). 3 credits.
CSC 132. Computer Organization and Programming. 3 credits.
CSC 216. Concepts of Networking and Database. 3 credits.
CSC 220. Application Development for Actuaries Structures. 3 credits.
CSC 231. Program Design I: C++ and Data Structures. 3 credits.
CSC 232. Program Design II: OOP and Patterns. 3 credits.
CSC 331. Software Design I. 3 credits.
CSC 332. Software Design II. 3 credits.
CSC 400. Internship. 1-12 credits.
CSC 441. Operating Systems. 3 credits.
CSC 442. Networks. 3 credits.
CSC 448. Databases. 3 credits.
CSC 452. Artificial Intelligence. 3 credits.

CSC 481. Advanced Topics in Computer Science I. 3 credits.
CSC 482. Advanced Topics in Computer Science II. 3 credits.
CSC 500. Independent Study. 1-3 credits.

For additional information about these programs, including faculty and full course descriptions, please visit www.lvc.edu/mathematics.

DEPARTMENT OF MUSIC

Students in the Department of Music major in one of four areas: music, music business, music education, or music recording technology. Each student in the B.A. (MUS or MBS), B.M. (MRT), or B.S. (MED) programs is required to take a core of courses in music theory and music history. Each student also completes additional course work particular to his or her area of interest.

Music majors will exhibit proficiency at the piano and in voice. To achieve these proficiencies, students take MSC 510, 511, 512, and 513, and/or 520. Precise requirements for the proficiencies and the recital attendance requirement are found in the Department of Music Student Handbook, and in the courses-in-music section of this catalog. Music majors (except music business students) will be in at least one major ensemble (identified as Marching Band, Symphonic Band, College Choir, Concert Choir, or Symphony Orchestra) each fall and spring semester. All students may earn up to 12 credits for ensemble participation. They will enroll in private study on their principal instrument/voice during each fall and spring semester.

Program Goals

Students completing programs in this department will:

- Be effective performers.
- Achieve proficiency in musical literacy.
- Apply knowledge of musical concepts by creating music.
- Demonstrate achievement of professional competence in their area of specialization.

Music Program

Students registered for private instruction in the department are not permitted to study in that instructional area on a private basis with another instructor, on or off campus, at the same time.

Degree Requirements

The Bachelor of Arts in music (B.A.) is designed for those students preparing for a career in music with a strong liberal arts background. Students in the jazz studies concentration will take 530 private applied each semester. They will also take at least three credits of 530 jazz studies starting in the junior year. The theory or

composition concentration students will take 530 private applied each semester. Theory concentration students will take at least one 530 individual instruction theory credit in the senior year. Composition concentration students will take at least four credits of 530 individual instruction composition starting no later than the junior year. Concentrations identified in the Department of Music Student Handbook include: piano, organ, voice, instrumental, sacred music, jazz studies, theory, or composition.

Degree: Bachelor of Arts in music.

Majors: Core courses in three of the music degree programs are: MSC 099,

115, 116, 117, 118, 215, 216, 217, 241, 242, and 246. MSC 530 for all degree candidates. In addition, music majors will be in either MSC 601, 602, 603, 604, or 606 each semester, exceptions noted previously.

Music (B.A.): Core courses plus: Piano concentration: MSC 306, 316, 406 and 600; Voice concentration: MSC 233, 326 and 327; Organ concentration: MSC 316, 351, and 352; Instrumental concentration: MSC 345, 403, 405 and 416; Sacred Music concentration: MSC 347, 351 or MED 334, and 422; Jazz Studies concentration: MSC 201, 218, 416 and 530 jazz studies (at least three semesters); Theory concentration: MSC 216, 315, 329, 416 and 530 individual instruction theory (at least the final semester); Composition concentration MSC 216, 315, 329, 416, and 530 individual instruction composition (at least four semesters).

Minor: MSC 099 (two semesters), 101, and three music literature courses from among the following: 100, 201, 202, 241, 242, or 343. Minors also take MSC 530 (Individual Instruction) for four semesters and must participate in any music ensemble for four semesters.

Student Recitals

Student recitals are of inestimable value to all music students in acquainting them with a wide range of significant music literature, and in developing musical taste and discrimination. Performing in a recital provides the experience of appearing before an audience, and helps to develop self-reliance and confident stage demeanor. Students at all levels of performance ability appear on regularly scheduled student recitals depending on their performance readiness, and in consultation with the private teacher.

Courses in Music

MSC 099. Recital Attendance. 0 credits.
MSC 100. Introduction to Music. 3 credits. [L5]
MSC 101. Fundamentals of Music. 3 credits. [L5]
MSC 111. Class Guitar for Beginners. 1 credit.
MSC 115. Music Theory I. 2 credits.
MSC 116. Music Theory II. 2 credits.
MSC 117. Aural Theory I. 2 credits.
MSC 118. Aural Theory II. 2 credits.
MSC 201. Music of the United States. 3 credits. [AD, WP]

MSC 202. World Musics. 3 credits. [ID]
MSC 215. Music Theory III. 2 credits.
MSC 216. Music Theory IV. 2 credits.
MSC 217. Aural Theory III. 2 credits.
MSC 218. Jazz Theory. 2 credits.
MSC 233. Diction. 2 credits.
MSC 241. History and Literature of Music I. 3 credits.
MSC 242. History and Literature of Music II. 3 credits. [L5]
MSC 246. Principles of Conducting. 2 credits.
MSC 306. Piano Literature. 2 credits.
MSC 315. Counterpoint. 2 credits.
MSC 316. Keyboard Harmony. 2 credits.
MSC 326. Vocal Literature. 2 credits.
MSC 327. Vocal Pedagogy. 2 credits.
MSC 329. Advanced Form and Analysis. 2 credits.
MSC 343. 20th Century Music. 3 credits. [L5]
MSC 345. Advanced Instrumental Conducting. 2 credits.
MSC 347. Advanced Choral Conducting. 2 credits.
MSC 351. Organ Literature. 2 credits.
MSC 352. Organ Pedagogy. 2 credits.
MSC 403. Instrumental Pedagogy. 2 credits.
MSC 405. Instrumental Literature. 2 credits.
MSC 406. Piano Pedagogy. 2 credits.
MSC 416. Orchestration. 2 credits.
MSC 422. Church Music Methods and Administration. 3 credits.
MSC 510. Class Piano Instruction I. 1 credit.
MSC 511. Class Piano Instruction II. 1 credit.
MSC 512. Class Piano Instruction III. 1 credit.
MSC 513. Class Piano Instruction IV. 1 credit.
MSC 520. Class Voice Instruction. 1 credit.
MSC 530. Individual Instruction. 1 credit.
MSC 540. Individual Instruction. 2 credits.
MSC 600. Accompanying. 1-2 credits.
MSC 601. Marching Band. 1 credit.
MSC 602. Symphonic Band. 1 credit.
MSC 603. Symphony Orchestra. 1 credit.
MSC 604. Concert Choir. 1 credit.
MSC 605. Chamber Choir. 1/2 credit.
MSC 606. College Choir. 1 credit.
MSC 610. Clarinet Choir. 1/2 credit.
MSC 611. Flute Ensemble. 1/2 credit.
MSC 612. Saxophone Ensemble. 1/2 credit.
MSC 613. Woodwind Quintet. 1/2 credit.
MSC 614. Low Brass Ensemble. 1/2 credit.
MSC 615. Trumpet Ensemble. 1/2 credit.

MSC 616. Percussion Ensemble. 1/2 credit.
MSC 620. String Ensemble. 1/2 credit.
MSC 625. Jazz Band. 1/2 credit.
MSC 626. Small Jazz Ensemble. 1/2 credit.
MSC 630. Guitar Ensemble. 1/2 credit.
MSC 631. Brass Quintet. 1/2 credit.
MSC 635. Handbell Choir. 1/2 credit.

Music Business Program

The Bachelor of Arts: emphasis in music business (B.A.) is a liberal arts-based music business curriculum that builds on the strengths of current programs in business and music.

Degree Requirements

Degree: Bachelor of Arts: emphasis in music business (MBS).

Music Business (B.A.): MSC 099 (8 semesters); 115, 116, 117, 118, 201, 241, 242, 510, 511, 512, 513, 520 (1 semester, or voice proficiency), 530 (8 semesters), any music ensemble (8 semesters); MBS 179 (4 semesters), 371, 372, 373, 400; ACT 161, 162; BUS 230, 285, 371; BUS 340 or DCOM 260; and ECN 101 or 102.

Courses in Music Business

MBS 179. Music Business Colloquium. 1 credit.
MBS 203. Milestones in Music Recording. 3 credits. [L5]
MBS 371. Introduction to the Music Business. 3 credits. [WP]
MBS 372. Music Copyright, Contracts and Cash. 3 credits.
MBS 373. Music Industry Entrepreneurship. 3 credits.
MBS 400. Internship. 3-12 credits.

Music Education Program

The Bachelor of Science in music education (B.S.), approved by the Pennsylvania Department of Education and accredited by the National Association of Schools of Music, is designed for the preparation of public school music teachers, kindergarten through grade 12, instrumental and vocal music. Piano and voice proficiencies for the music education major prepare the candidate to meet the standards of the Pennsylvania Department of Education and are administered by competency jury. Students participate in student teaching in area elementary and secondary schools. In all field experiences, as well as the student teaching semester, each student is responsible for transportation arrangements. During the student teaching semester, the candidate is not required to register for recital attendance, private lessons, or an ensemble.

Degree Requirements

Degree: Bachelor of Science in music education (MED).

Music Education (B.S.): Core courses plus: MED 110, 223, 227, 330, 331, 333, 334, 335, 337, 437, 441, 442; MSC 316; 345 or 347; 416; EDU 240 or 245, SPE

250, 255, and 258; two college-level mathematics courses and one American or English literature course; and a 3.00 cumulative grade point average.

Courses in Music Education

MED 110. Foundations of Music Education. 3 credits.
MED 223. Brass Techniques. 2 credits.
MED 227. Percussion Techniques. 1 credit.
MED 280. Field Practicum in Music Education. 1-3 credits.
MED 330. Woodwind Techniques. 2 credits.
MED 331. String Techniques. 2 credits.
MED 333. Methods and Materials, General Music: Elementary. 3 credits.
MED 334. Choral Literature and Methods. 3 credits. [WP]
MED 335. Instrumental Literature and Methods. 3 credits.
MED 337. Music Teaching and Learning I. 2 credits.
MED 437. Music Teaching and Learning II. 2 credits.
MED 441. Student Teaching: Instrumental. 4-8 credits.
MED 442. Student Teaching: Vocal. 4-8 credits.

Music Recording Technology Program

The Bachelor of Music: emphasis in music recording technology (B.M.) is designed to prepare students for today's rapidly developing interactive media and music recording industries.

Degree Requirements

Degree: Bachelor of Music: emphasis in music recording technology (MRT).

Music Recording Technology (B.M.): Core courses plus: MRT 177, 277, 278, 373, 374, 377, 379, 400, 473, 474; MBS 371; PHY 101, 102, 212, 350; MAS 102 (or MAS 161).

Courses in Music Recording Technology

MRT 177. The Recording Industry. 1 credit.
MRT 277. Recording Engineering I. 3 credits.
MRT 278. Recording Engineering II. 3 credits.
MRT 373. Electronic Music. 3 credits.
MRT 374. Digital Audio. 3 credits.
MRT 377. Mastering Audio. 3 credits.
MRT 379. Tonmeister Recording. 1 credit.
MRT 400. Internship. 3-12 credits.
MRT 473. Architectural Acoustics. 3 credits.
MRT 474. Music Production Seminar. 3 credits.

For additional information about these programs, including faculty and full course descriptions, please visit www.lvc.edu/music.

DEPARTMENT OF PHYSICAL THERAPY

Health Science Program

This curriculum shall only be completed by students enrolled in the six-year Doctor of Physical Therapy (DPT) program. At the end of four years of study, students enrolled in the DPT program will receive a Bachelor of Science in health science. In order to proceed into the professional phase of the DPT program, students must maintain: (1) a minimum cumulative 3.0 GPA in all coursework; (2) a minimum cumulative science GPA of 2.8 (the required biology, chemistry, physics, anatomy, and physiology courses), and (3) no individual science grade lower than a C (2.0). Science courses may be repeated only once to meet the GPA requirement. All required courses must be taken for a grade. Only one science course can be transferred in from another institution (excluding study abroad). The grade from this course must be a "C" (2.0) or better to satisfy program requirements. Departmental students not meeting the GPA or letter grade requirements at the end of the third year may complete their senior or fourth-year requirements and graduate with the health science degree but may not continue into the professional (graduate) phase.

Required pre-professional course work includes completion of the General Education Program and major requirements including 18 credit hours in a cognate discipline or minor of choice. In fulfilling the cognate requirement, students must take at least two courses at the 300-level or higher. However, only one 300-level course will be required for a cognate in discipline in which the minor requires only one 300-level course.

Doctor of Physical Therapy degree requirements can be found on page 115. All students will complete a comprehensive criminal background check during the first professional phase year.

Lebanon Valley College's Doctor of Physical Therapy Degree Program is accredited by the Commission on Accreditation in Physical Therapy Education.

Program Goals

See Doctor of Physical therapy goals on page 119.

Degree Requirements

Degree: Bachelor of Science with a major in health science.

Major: BIO 111/L, 112/L, 222/L; CHM 111, 112, 113, 114; PHY 103/L, 104/L; MAS 170 or 270, or PSY 212/L; PSY 111/L or 112; SOC 110 or 120; PHT 311, and a choice of PHT 412 or SOC 324. (44 total credits).

No minor is offered in health science.

All courses are limited to students enrolled in the health science-DPT track with the exception of PHT 412.

Courses in Health Science

PHT 311. Fundamentals of Anatomy. 4 credits.
PHT 412. Psychosocial Aspects of Disease and Disability. 3 credits. [DP]
PHT 502. Professional Issues of Physical Therapy Practice I. 3 credits.
PHT 504. Professional Issues of Physical Therapy Practice II. 4 credits.
PHT 511. Human Anatomy. 5 credits.
PHT 514. Pathophysiology. 4 credits.
PHT 516. Biomechanics and Kinesiology. 4 credits.
PHT 518. Exercise Science. 3 credits.
PHT 520. Motor Control Motor Learning. 2 credits.
PHT 532. Clinical Examination. 4 credits.
PHT 534. Cardiovascular-Pulmonary Physical Therapy. 4 credits.
PHT 542. Pharmacology in Rehabilitation. 2 credits.
PHT 551. Foundations of Evidenced Based Critical Inquiry. 3 credits.
PHT 595. Student Run Free Clinic I. 0 credits.
PHT 596. Student Run Free Clinic II. 0 credits.

For additional information about this program, including faculty and full course descriptions, please visit www.lvc.edu/physical-therapy.

DEPARTMENT OF PHYSICS

Physics Program

Physics, the most fundamental science of the physical world, combines the excitement of experimental discovery and the beauty of mathematics. The program in physics at Lebanon Valley College is designed to develop an understanding of the fundamental laws dealing with motion, force, energy, heat, light, electricity and magnetism, atomic and nuclear structure, and the properties of matter.

Students major in physics as a preparation for professional careers in industry as physicists and engineers, and education as high school and college teachers. Other possibilities include technical writing, sales, and marketing. Physics students can continue their professional training by going to graduate school in physics and engineering, or to other professional schools offering degrees in such fields as health physics and business.

The facilities of the Physics Department are located on the second floor of the Neidig-Garber Science Center. In addition to the introductory physics laboratories, the department maintains an atomic/nuclear laboratory, computational physics laboratory, electronics laboratory, optics laboratory, atomic force microscope laboratory, and student research laboratory.

Students majoring in physics take advantage of close contact with faculty, work as paid laboratory assistants, pursue independent study or research/internships, and participate in the local chapter of the Society of Physics Students. Summer research opportunities, supported by College funds or external grants, are available for physics students.

The requirements for the physics major, like other majors at LVC, are designed so students can study abroad for one semester (typically in their junior or senior year). Hence, students can combine their study of physics with the richness of an international experience by participating in any college-wide study-abroad program (e.g., New Zealand Program).

The Physics Department also directs the 3+2 Engineering Program. For details, see Cooperative Programs, page 39.

Program Goals

Students completing this program should have:

- A working understanding and knowledge of fundamental areas in physics.
- A working understanding and knowledge of mathematics along with computational skills necessary for advanced work in physics.
- Competence in experimental physics.
- The ability to communicate effectively—written and verbal.

Degree Requirements

Degree: Bachelor of Science with a major in physics.

Major: PHY 111/L, 112/L, (or 101/L, 102/L or 103/L, 104/L with permission), 211/L, 311, 312, 321, 322, 327, 328 and four additional semester hours above 211; MAS 161, 162, 261 and 266 or MAS 111, 112, 261 and 266 (43–47 credits).

Minor: PHY 111/L, 112/L, (or 101/L, 102/L or 103/L, 104/L), 211/L, plus 6 credits in physics above 211; MAS 111 or 161 (21–23 credits).

Secondary Teacher Certification: Along with the major requirements, students seeking secondary certification in physics must take either BIO 111/L or BIO 103/L, and CHM 111/113. Certification candidates must also complete 33 credits in additional required coursework. See the Education Department section on pages 65-66 for additional information.

Courses in Physics

PHY 101. Fundamentals of Physics I. 3 credits. [L3]
PHY 101L. Fundamentals of Physics I Laboratory. 1 credit. [L3]
PHY 102. Fundamentals of Physics II. 3 credits. [L3]
PHY 102L. Fundamentals of Physics II Laboratory. 1 credit. [L3]
PHY 103. General College Physics I. 3 credits. [L3]
PHY 103L. General College Physics I Laboratory. 1 credit. [L3]
PHY 104. General College Physics II. 3 credits. [L3]
PHY 104L. General College Physics II Laboratory. 1 credit. [L3]
PHY 111. Principles of Physics I. 3 credits. [L3]
PHY 111L. Principles of Physics I Laboratory. 1 credit. [L3]
PHY 112. Principles of Physics II. 3 credits. [L3]
PHY 112L. Principles of Physics II Laboratory. 1 credit. [L3]
PHY 120. Principles of Astronomy. 3 credits. [L3]
PHY 120L. Principles of Astronomy Laboratory. 1 credit. [L3]
PHY 211. Atomic and Nuclear Physics. 3 credits.

PHY 211L. Atomic and Nuclear Physics Laboratory. 1 credit.
PHY 212. Introduction to Electronics. 3 credits.
PHY 212L. Introduction to Electronics Laboratory. 1 credit.
PHY 261. Introduction to Computational Physics. 3 credits.
PHY 302. Optics. 3 credits.
PHY 304. Thermodynamics. 3 credits.
PHY 311. Analytical Mechanics I. 3 credits.
PHY 312. Analytical Mechanics II. 3 credits.
PHY 321. Electricity and Magnetism I. 3 credits.
PHY 322. Electricity and Magnetism II. 3 credits.
PHY 327. Experimental Physics I. 1 credit.
PHY 328. Experimental Physics II. 2 credits. [WP]
PHY 350. Audio Electronics. 3 credits.
PHY 421. Quantum Mechanics I. 3 credits.
PHY 422. Quantum Mechanics II. 3 credits.

For additional information about this program, including faculty and full course descriptions, please visit www.lvc.edu/physics.

DEPARTMENT OF PSYCHOLOGY

The Psychology Department at Lebanon Valley College seeks to foster an understanding of human behavior that is built on a scientific foundation and is applied to real world phenomena and problems. Our curriculum is a student-oriented, liberal arts program that prepares students, following graduation, for applied entry positions in the work force, or for graduate studies in a range of areas such as psychology, neuroscience, social work, medicine, business, education, and law. The program allows our students to become psychologically literate individuals who can (a) attain significant professional accomplishments within the field, and also (b) apply their knowledge towards understanding and shaping behavior-related public policies, critically analyzing media-based coverage of psychological topics, and enhancing various elements of their own and others' lives. This approach is consistent with the mission of the College, which is to enable "students to become people of broad vision, capable of making informed decisions and prepared for a life of service to others."

The department offers students the benefits of a strong classroom-based traditional background in the core sub-disciplines of psychology, along with providing opportunities to become involved in the field of psychology in an applied manner. Many psychology majors gain practical knowledge through (a) participation in independent and collaborative research projects under the guidance and supervision of individual faculty members, as well as (b) our extensive internship program, which allows students to receive college credit for work experience relevant to their particular interests within the field of psychology. Overall, the Department of Psychology at Lebanon Valley College offers the "best

of both worlds": experiences and facilities usually associated only with larger universities, along with individualized instruction and advisement characteristic of small liberal arts institutions.

Psychology Program

The psychology program requires all majors to complete a minimum of 46 credits of psychology coursework. All majors initially complete several foundation courses, which include introductions to a vast array of subfields within psychology, as well as laboratory-based exposure to the nature of research design and analysis. Students then complete courses within each of five critical psychological sub-disciplines (human development, psychopathology, biopsychology, cognition, and social processes), which include additional, advanced, lab-based research. Finally, all majors complete an integrative capstone experience, which includes coursework surveying the history of psychology, as well as the completion of an individualized internship or research project.

Program Goals

The psychology curriculum is structured to encourage students to attain the following goals; all of these are addressed in a variety of classes within the program.

- Students will possess a foundation of basic knowledge of psychology.
- Students will be proficient researchers.
- Students will be effective communicators.
- Students will be critical thinkers.
- Students will engage in professional development.

Degree Requirements

Degree: Bachelor of Science with a major in psychology.

Major: PSY 111/L, 112, 201, 211/L, 212/L, 310, and 443; one course from 325, 333, 347, 364, or 379; one course from 400 or 410; an additional 6 PSY credits. Students must also complete one course from each of the following five core areas: biopsychology: 280, 285, 291, 378; cognition: 250, 252, 260, 294, 363; human development: 230, 235, 295, 324; social processes: 245, 247, 255, 292, 346; psychopathology: 265, 268, 270, 293, 332. (46 credits).

Minor: PSY 111/L, 112, 211/L and 212/L; 6 credits at the 200-level or higher (not including PSY 211 and 212); 3 credits at the 300-level. (24 credits).

Courses in Psychology

PSY 111. General Psychology I. 3 credits. [L3]
PSY 111L. General Psychology I Laboratory. 1 credit. [L3]
PSY 112. General Psychology II. 3 credits.
PSY 180. Child Development and Education. 3 credits.
PSY 201. Sophomore Seminar. 1 credit.
PSY 211. Research Methods in Psychology. 3 credits. [WP]
PSY 211L. Research Methods in Psychology Lab. 1 credit.
PSY 212. Statistics and Data Analysis. 3 credits.

PSY 212L. Statistics and Data Analysis Laboratory. 1 credit.
PSY 230. Psychology of Adolescent Development. 3 credits.
PSY 235. Psychology of Adult Development and Aging. 3 credits.
PSY 245. Personality. 3 credits. [WP]
PSY 247. Psychological Perspectives on Gender. 3 credits. [AD]
PSY 248. Health Psychology/Behavioral Medicine. 3 credits.
PSY 250. Sensory and Perceptual Processes. 3 credits.
PSY 252. The Science of Emotion. 3 credits.
PSY 255. Evolutionary Psychology. 3 credits.
PSY 260. Learning and Memory. 3 credits.
PSY 265. Abnormal Behavior and Experience. 3 credits.
PSY 268. Introduction to Clinical Psychology. 3 credits.
PSY 270. Forensic Psychology. 3 credits.
PSY 280. Introduction to Neuropsychology. 3 credits.
PSY 285. Introduction to Psychopharmacology. 3 credits.
PSY 291. Special Topics in Biopsychology. 3 credits.
PSY 292. Special Topics in Social Process. 3 credits.
PSY 293. Special Topics in Psychopathology. 3 credits.
PSY 294. Special Topics in Cognition. 3 credits.
PSY 295. Special Topics in Human Development. 3 credits.
PSY 310. Advanced Research Design. 2 credits.
PSY 324. Psychology of Child Development. 3 credits.
PSY 325. Child Development Laboratory. 1 credit.
PSY 332. Psychological Testing and Assessment. 3 credits.
PSY 333. Psychological Testing and Assessment Laboratory. 1 credit.
PSY 346. Social Psychology. 3 credits.
PSY 347. Social Psychology Laboratory. 1 credit.
PSY 363. Cognitive Science. 3 credits.
PSY 364. Cognitive Science Laboratory. 1 credit.
PSY 378. Behavioral Neuroscience. 3 credits.
PSY 379. Behavioral Neuroscience Lab. 1 credit.
PSY 400. Internship. 1-12 credits.
PSY 410. Independent Laboratory Research. 3 credits.
PSY 443. History and Theory. 3 credits. [WP]

For additional information about this program, including faculty and full course descriptions, please visit www.lvc.edu/psychology.

DEPARTMENT OF RELIGION AND PHILOSOPHY

The mission of the Religion and Philosophy Department is to engage, educate, and challenge students through the careful examination of the fundamental questions, the profound minds, and the diverse traditions, values, and practices that have shaped human experience. Our teaching aims to foster our students' abilities to reason critically, read analytically, and argue cogently. We emphasize the importance of writing and oral expression and encourage independent thought and research so that our students may grow into life-long learners who understand the value of reflection and thoughtful action.

Many majors in religion or philosophy go on to advanced study in graduate or professional schools and seminaries. Our graduates have pursued a wide variety of careers in education, law, ministry, and business. A major in religion or philosophy may be combined with a major or minor in another subject.

Students may elect to declare a specialization within either major. To receive recognition for a specialization, a student needs to assemble a dossier of three papers that are related to the specialization. One of the papers will be from the Senior Seminar. The student must be able to show at least a B average on the papers overall. Students need to declare a specialization during advising for their final year. They then need to develop a proposal for their specialization by the second week of the senior seminar. Specializations include philosophy of religion, religion and politics, political philosophy, continental philosophy, comparative religion, and history of philosophy.

Religion Program

The study of religion is designed to give students insight into the meaning of the religious dimension of human experience by exposing them to different cultural beliefs and practices and introducing them to the many methodologies in the comparative study of religion. Course work in religion introduces students to the various historical and contemporary expressions of the diverse religious traditions of humankind. The breadth of courses required by the major and minor are designed to impart on the student a basic religious literacy, which is key to understanding an increasingly diverse world.

Program Goals

The Religion Program will:

- Enhance students' knowledge of human cultures through the study of religion, with a specific emphasis on historical and comparative analysis.
- Develop the intellectual core competencies of students through inquiry and analysis, critical thinking, and written and oral communication.
- Promote personal and social responsibility by developing students' intercultural knowledge and competence, ethical reasoning, and foundations and skills for lifelong learning.
- Culminate with integrative learning by requiring all students to compile and reflect on an academic portfolio and to complete an independent research project.

Degree Requirements

Degree: Bachelor of Arts with a major in religion.

Major: REL 140, 280, 499; one course from 200, 202, or 204; one course from 252, 253, or 255; one course from 250, or 251; and four additional courses in religion, of which at least one must be in the 300-level. Total: 10 courses (30 credits).

Minor: REL 140, 280; one course from 200, 202, or 204; one course from 252, 253, or 255; one course from 250, or 251; and one additional course in religion. Total: 6 courses (18 credits).

Note: To be credited for majors or minors in religion, cross-listed courses must be designated as religion courses at registration.

Courses in Religion

REL 110. The Sacred Life. 3 credits. [L6]
REL 120. Religion in America. 3 credits. [AD]
REL 140. Encountering World Religions. 3 credits. [ID]
REL 200. Comparative Scripture. 3 credits. [ID]
REL 202. Jewish and Christian Scripture. 3 credits. [L6]
REL 204. Hindu Scripture. 3 credits. [ID]
REL 230. Philosophy of Religion. 3 credits. [L6, WP]
REL 250. Christianity. 3 credits. [L6]
REL 251. Judaism. 3 credits. [L6]
REL 252. Hinduism. 3 credits. [ID]
REL 253. Buddhism. 3 credits. [ID]
REL 255. Islam. 3 credits. [ID]
REL 280. Method and Theory in Religion. 3 credits. [WP]
REL 311. Key Issues in Religion. 3 credits. [WP]
REL 313. The Search for Jesus. 3 credits. [DP, WP]
REL 314. Death, Dying, and Beyond. 3 credits. [DP]
REL 340. One Nation Under God? 3 credits. [L1]
REL 499. Senior Seminar. 3 credits. [WP]

Philosophy Program

The study of philosophy directly involves the student in the process of sharpening critical and analytical abilities. Philosophy courses examine some of the greatest perennial questions of values, knowledge, and reality, and their relation to human nature.

Program Goals

The Philosophy Program will:

- Enhance students' knowledge of human cultures through the development of a broad understanding of the history of philosophy.
- Develop the intellectual core competencies of students through inquiry and analysis, critical thinking, and written and oral communication.

- Promote personal and social responsibility by developing students' intercultural knowledge and competence, ethical reasoning, and foundations and skills for lifelong learning.
- Culminate with integrative learning by requiring all students to compile and reflect on an academic portfolio and to complete an independent research project.

Degree Requirements

Degree: Bachelor of Arts with a major in philosophy.

Major: PHL 140, 210, 280, 301, 311, 499; 2 courses listed as PHL 270; at least 2 additional courses in philosophy. (30 credits).

Minor: PHL 210, 270, 280; PHL 301 or 311; 2 additional courses in philosophy. (18 credits).

Courses in Philosophy

PHL 110. The Examined Life. 3 credits. [L6]
PHL 140. Encountering World Philosophies. 3 credits. [ID]
PHL 210. Ethics. 3 credits. [L6, WP]
PHL 222. American Philosophy. 3 credits. [L6]
PHL 229. Culture and Conflict in Modern America. 3 credits. [AD, WP]
PHL 230. Philosophy of Religion. 3 credits. [L6, WP]
PHL 270. Seminar in the History of Philosophy. 3 credits. [WP]
PHL 280. Logic. 3 credits.
PHL 301. Key Authors. 3 credits. [WP]
PHL 311. Key Issues. 3 credits. [WP]
PHL 345. The Philosophical Foundations of Politics. 3 credits. [WP]
PHL 349. Genocide Ethics. 3 credits. [DP, WP]
PHL 417. Seminar in Law. 3 credits. [WP]
PHL 499. Senior Seminar. 3 credits. [WP]

World Classics Minor

A minor that allows students to study the foundations of Greek or Indian civilizations, including their languages, art, literature, history, philosophy, and religion. The study of classics is excellent preparation for advanced work in law and medicine, as well as for the graduate study of literature, history, fine arts, archaeology, anthropology, philosophy, religion, and classics. The minor allows students to start key languages for advanced study in their undergraduate years, attain reading proficiency from a first-year language course, and develop their language skills further through individualized study.

Minor: One language sequence: GRK 101, 102; LAT 101, 102; or SKT 101, 102; 12 credits from ART 112, ART 312, DSP 340, HIS 103, PHL 270, PHL 301, REL 252, REL 253 (18 credits).

Courses in Classical Greek (GRK)

GRK 101. Elementary Classical Greek I. 3 credits. [LA]
GRK 102. Elementary Classical Greek II. 3 credits. [LA]

Courses in Latin (LAT)
LAT 101. Elementary Latin I. 3 credits. [LA]
LAT 102. Elementary Latin II. 3 credits. [LA]

Courses in Sanskrit (SKT)
SKT 101. Elementary Sanskrit I. 3 credits. [LA]
SKT 102. Elementary Sanskrit II. 3 credits. [LA]

For additional information about these programs, including faculty and full course descriptions, please visit www.lvc.edu/religion-philosophy

DEPARTMENT OF SOCIOLOGY AND CRIMINAL JUSTICE

Sociology Program

Sociology is the study of social life, social change, and the social causes and consequences of human behavior. Sociologists investigate the structure of groups, organizations, and societies and how people interact within these contexts. Since all human behavior is social, the subject matter of sociology ranges from the intimate family to the hostile mob; from organized crime to religious traditions; from the divisions of race, gender, and social class to the shared beliefs of the common culture. It uses theoretical frameworks and scientific methods of research to investigate the social world. The results of sociological investigations help in the development of new theories and inform social policy, programs, and laws. (This text is an excerpt from 21st Century Careers with an Undergraduate Degree in Sociology. American Sociological Association).

Program Goals
Students completing this program will:
- Be familiar with the sociological perspective on human behavior and key concepts in sociology.
- Be familiar with the major theoretical orientations in sociology.
- Understand the role of evidence in sociology and will be familiar with quantitative and qualitative research methods used in the social sciences.
- Be able to communicate effectively.

Degree Requirements
Degree: Bachelor of Arts with a major in sociology.

Major: SOC 110, 310, 311, 321, 499; 21 additional credits in sociology excluding internships, with a minimum of six credits completed at the 300-level (34 credits).

Major with Criminal Justice Concentration: SOC 110, 245, 278, 310, 311, 321, 331, 333, 499; nine additional credits in sociology excluding internships (34 credits).

Major with Family Studies Concentration: SOC 110, 230, 310, 311, 321, 499; 18 additional credits from the following, excluding internships: SOC 226, 261, 271, 272, 278, 280, 292, 324, 370, 375, 392. A minimum of six credits in sociology must completed at the 300-level (34 credits).

Criminal Justice Program

The criminal justice major is a multi-disciplinary approach to examining the patterns associated with various crimes, theories of crime causation, victimization, and society's response to crime. The components of the criminal justice system, including law enforcement, the courts, and corrections, are analyzed. Study of the criminal justice system includes a critical approach to examining the goals and controversies associated with crime control policies.

Program Goals

Students completing this program will:

- Be familiar with key concepts and theories in criminology.
- Have a basic understanding of the criminal justice system and how it operates.
- Understand the role of evidence in criminal justice and will be familiar with quantitative and qualitative research methods used in the social sciences.
- Be able to communicate effectively.
- Have basic understanding of the legal rights afforded the accused.

Degree Requirements

Degree: Bachelor of Arts with a major in criminal justice.

Major: SOC 110, 245, 278, 310, 311, 331, 333, 499; LAW 316; POL 110; 12 credits from the following: SOC 220, 221, 270, 271, 272, 281, 291, 335, 391; SOC/PSY 270; SOC 400 (a maximum of six internship credits may be counted toward the major); PSY 265. (40 credits).

Courses in Sociology and Criminal Justice

SOC 110. Introduction to Sociology. 3 credits. [L2]
SOC 120. Introduction to Anthropology. 3 credits. [L2]
SOC 210. Social Problems. 3 credits. [L2]
SOC 220. Forensic Evidence. 3 credits.
SOC 221. Crime Scene Investigation. 3 credits.
SOC 224. Native American Experience. 3 credits. [AD]
SOC 226. Women and Gender Issues. 3 credits. [AD]
SOC 230. Sociology of Marriage and the Family. 3 credits. [L2]
SOC 240. Diversity and Intercultural Communication. 3 credits. [AD]
SOC 245. Crime and Criminals. 3 credits.
SOC 261. Perspectives on Aging. 3 credits. [L2]
SOC 262. Race, Minorities and Discrimination. 3 credits. [AD]
SOC 270. Forensic Psychology. 3 credits.
SOC 271. Child Abuse. 3 credits.
SOC 272. Substance Abuse. 3 credits.
SOC 278. Juvenile Justice. 3 credits.

SOC 280. Genders and Sexualities. 3 credits.
SOC 281. Police and Society. 3 credits.
SOC 290. Special Topics in Sociology. 3 credits.
SOC 291. Special Topic in Criminal Justice. 3 credits.
SOC 292. Special Topics in Family Studies. 3 credits.
SOC 310. Research Tools for the Social Sciences. 1 credit.
SOC 311. Research Methods in Sociology. 3 credits. [WP]
SOC 321. Social Theory. 3 credits.
SOC 324. Medical Sociology. 3 credits. [WP]
SOC 325. Urban Sociology. 3 credits.
SOC 331. Criminology. 3 credits. [WP]
SOC 333. Criminal Justice. 3 credits.
SOC 335. Probation and Parole. 3 credits.
SOC 370. Adoption. 3 credits.
SOC 375. Sociology of Work. 3 credits.
SOC 390. Special Topics in Sociology. 3 credits.
SOC 391. Special Topics in Criminal Justice. 3 credits.
SOC 392. Special Topics in Family Studies. 3 credits.
SOC 400. Internship. 1-12 credits.
SOC 499. Senior Seminar. 3 credits. [WP]

For additional information about these programs, including faculty and full course descriptions, please visit www.lvc.edu/sociology-criminal-justice.

POST-BACCALAUREATE CERTIFICATE AND CREDENTIAL PROGRAMS

The Office of Graduate & Professional Studies (GPS) at Lebanon Valley College is committed to the professional development needs of adults and employers throughout the region. A variety of programs and credentials are offered including post-bachelor's certificate programs. GPS also develops customized corporate training programs, seminars, and workshops for employers. Courses taken for post-baccalaureate certificate and credential programs are considered to be at the graduate level and are subject to graduate program policies and procedures (see pages 105–108) unless stated otherwise below.

Post-Baccalaureate Policies and Procedures

Applicants to post-bachelor's certificate programs at Lebanon Valley College must possess a bachelor's degree from an accredited college or university and have completed a minimum of three years of post-bachelor's professional work experience. Applicants for the Leadership and Management of Education Certificate Program must also be currently employed as a school superintendent or principal.

In addition to the online application, applicants should submit the following application materials to the Office of Graduate & Professional Studies, 101 N. College Avenue Annville, Pa. 17003; or electronically to gps@lvc.edu:

- An official transcript from each college, university, or professional school attended. Official transcripts should be signed and sealed by the issuing school and mailed to the Office of Graduate & Professional Studies. Secure, electronic delivery to gps@lvc.edu is also available.
- A personal statement about how you will benefit from and contribute to the program.
- A current professional résumé.

A cumulative grade point average of 3.0 is required for a certificate or credential to be awarded. No more than two courses (six credits) will be considered for transfer into a certificate program. Students enrolled in a certificate program have a two-year time limit to complete the certificate requirements.

POST-BACHELOR'S CERTIFICATE IN BUSINESS ADMINISTRATION

This certificate will provide the student with fundamental business knowledge of accounting, finance, economics, ethics, law, international business, management, marketing, and business statistics. The knowledge obtained by the student is the foundation needed for graduate study in business for those without prior academic training in the field. The certificate may also be used as professional development

for students working in business who completed a bachelor's degree in a non-business field.

A grade of "C" (2.0) or better must be achieved in each course for the course to be considered as a fulfilled prerequisite for the MBA Program.

Program Goals

Students completing this certificate will:

- Demonstrate the fundamental business knowledge and skills necessary to strategically manage an organization or functional unit.
- Apply business skills to lead innovative, change initiatives and build a culture of adaptability and change.
- Identify and apply law at the federal, state, and local levels through review, discussion and analysis of court decisions that affect business organizations.
- Discuss and implement strategies to effectively manage resources.
- Describe and apply the essential tools and strategies necessary to making data-informed decisions to improve organizational performance.
- Illustrate the knowledge and skills to think, plan, and act strategically as a manager.

Program Requirements

Requirements: PMBA 701, 702, 703, 704, 705, 706 (18 credits)

Program Courses

PMBA 701. Accounting Fundamentals. 3 credits.
PMBA 702. Survey of Economics. 3 credits.
PMBA 703. Principles of Marketing and Management. 3 credits.
PMBA 704. Legal Environment of Business. 3 credits.
PMBA 705. Data-Based Decision-Making. 3 credits.
PMBA 706. Fundamentals of Finance. 3 credits.

POST-BACHELOR'S CERTIFICATE IN HEALTH CARE MANAGEMENT

The health care management certificate provides business training that is relevant to health care professionals transitioning to a management role in their career. The courses contained in the certificate program are eligible for meeting the prerequisites and Health Care Concentration course requirements of the MBA Program for those interested in continuing their education at the master's level.

A grade of "C" (2.0) or better must be achieve in each 700-level course for the course to be considered as a fulfilled prerequisite for the MBA Program.

Program Goals

Students completing this certificate will:

- Demonstrate the knowledge and skills to strategically create a successful health care organization.
- Apply skills to lead innovative, change initiatives and build a culture of adaptability and change.

- Identify and apply law at the federal, state, and local levels through review, discussion, and analysis of court decisions that affect health care organizations.
- Discuss and implement strategies to effectively manage resources.
- Describe and apply the essential tools and strategies necessary to making data-informed decisions to improve quality of care and cost of care.
- Illustrate the knowledge and skills to think, plan, and act strategically on a system-wide basis.

Program Requirements
Requirements: HCM 701, 702, 703, 705, 706, 801, 802, 891 (24 credits)

Program Courses
HCM 701. Accounting Fundamentals. 3 credits.
HCM 702. Survey of Economics. 3 credits.
HCM 703. Principles of Marketing and Management. 3 credits.
HCM 705. Data-Based Decision-Making. 3 credits.
HCM 706. Fundamentals of Finance. 3 credits.
HCM 801. Introduction to Healthcare Management. 3 credits.
HCM 802. Ethical, Legal, and Regulatory Issues in Healthcare. 3 credits.
HCM 890. Special Topics: Current Issues in Healthcare Management. 3 credits.

POST-BACHELOR'S CERTIFICATE IN LEADERSHIP AND MANAGEMENT IN EDUCATION

Research demonstrates that effective school leaders have an impact on the educational environment which in turn positively impacts student learning and achievement. High quality leadership and a commitment to the continuous improvement of the processes and resources that advance learning are required for a successful education system. The certificate in Leadership and Management in Education provides the knowledge and skills necessary as professional development for individuals who are in school administration. This program equips educational leaders with the skills set to create innovative and performance-driven learning environments.

Students must provide evidence of an earned bachelor's degree and employment in school administration to be admitted to the program. Note: A grade of "C" (2.0) or better must be achieved in the 700-level LME courses for the course to be considered as a fulfilled prerequisite for the MBA Program.

Program Goals
Students completing this certificate will:
- Demonstrate the knowledge and skills to strategically create an organizational system that is built around the vision of personalized student success.
- Apply skills to lead innovative, change initiatives and build a culture of adaptability and change.

- Identify and apply school law at the federal, state, and local levels through review, discussion and analysis of court decisions that affect educational institutions.
- Discuss and implement strategies to effectively manage school resources.
- Describe and apply the essential tools and strategies necessary to making data-informed decisions to improve student achievement.
- Illustrate the knowledge and skills to think, plan, and act strategically on a system-wide basis.

Program Requirements
Requirements: LME 701, 702, 706, 819, 820, 821, 822, 823, 824 (18 credits)

Program Courses
LME 701. Accounting Fundamentals. 3 credits.
LME 702. Survey of Economics. 3 credits.
LME 706. Fundamentals of Finance. 3 credits.
LME 819. Strategic Leadership for High Performance Schools. 1.5 credits.
LME 820. Innovation and Change in the Modern School. 1.5 credits.
LME 821. Ethics, Advocacy, and School Law. 1.5 credits.
LME 822. Effective Management of School Resources. 1.5 credits.
LME 823. Strategic Management: Creating a Student-Centered Organizational Strategy. 1.5 credits.
LME 824. Data Driven Decision-Making for School Leaders. 1.5 credits.

ADVANCED S.T.E.M. EDUCATION CREDENTIAL

This program will help teachers address environmental standards in a meaningful and relevant manner through a sequence of three courses that focus on the integration of science, technology, engineering, and math in the K-12 curriculum. Courses will be offered in a blended format to meet the needs of full-time teachers. These courses will include pedagogy, trends, and issues in STEM and environmental education, and literacy skills in STEM education.

Program Goals
Students completing this credential will:
- Apply National Standards for Technological Literacy to develop skills in teaching literacy in science classrooms from a technological and engineering design approach.
- Examine and integrate current STEM initiatives into pedagogical practice.
- Explore pedagogies unique to STEM education.

Program Requirements
Requirements: MSE 880, 881, 882 (9 credits).

Program Courses
MSE 880. Introduction to STEM Education. 3 credits.
MSE 881. STEM Education Systemic Reform. 3 credits.
MSE 882. STEM Integrative Curriculum Design. 3 credits.

GRADUATE ACADEMIC PROGRAMS

Lebanon Valley College offers four graduate programs. These are the Master of Business Administration (MBA), the Master of Music Education (MME), the Master of Science Education (MSE), and the Doctor of Physical Therapy (DPT) programs.

The Master of Business Administration Program is a multi-disciplinary program designed to prepare graduates for managerial responsibilities at various levels of business organizations. This program provides both a strong theoretical and operational foundation in the areas of finance, accounting, marketing, strategic management, leadership, ethics, international business, organization behavior, economics, communication, and operations management. LVC also offers an MBA with a concentration in healthcare management.

The Master of Music Education Program is designed to be completed over the course of four summers. Addressing the graduate education needs of K–12 music teachers (the program is accredited by the National Association of Schools of Music), the curriculum includes experiences in foundations and principles of music education, research methods, music technology, and the psychology of music learning plus numerous elective choices.

The Master of Science Education Program employs a collaborative learning approach with classes designed to apply to any age range, from K–12. High school teachers work alongside middle school and elementary teachers, with each benefiting from the experience and insight of their colleagues. This learning environment helps MSE students to prepare their own students for success in state and national science assessments.

The Doctor of Physical Therapy Program is a six-year program of study for students who will receive a preliminary baccalaureate degree in health science after four years of course work.

Graduate Program Policies and Procedures

Academic Advising and Registration

Graduate students should contact their academic advisors prior to class registration, as needed. The advisor will develop a graduation plan with the student. All course registrations require the advisor's approval.

Veteran Registration

Students receiving educational benefits provided by the Department of Veterans Affairs (DVA) must report their enrollment to the Financial Aid Office during registration each semester or summer session. The Financial Aid Office will then submit certification of enrollment to the DVA. Students should complete the FAFSA and the financial aid process each year according to the school's requirements and deadlines. *Please be advised that Lebanon Valley College reserves the right to decrease institutional aid awarded to students receiving military and veterans' benefits according to school policy.* Students receiving EAP and/or FTA benefits are responsible for applying for these benefits through their

unit of assignment prior to the start of each semester or summer session and for submitting all necessary forms to the Financial Aid Office.

Students participating in the Yellow Ribbon Program must maintain Satisfactory Academic Progress (SAP) in order to be eligible to receive Yellow Ribbon Program matching payments.

Students must notify the Financial Aid Office immediately if they change the number of credits for which they are enrolled, withdraw, or request a leave of absence. Failure to do so may result in a charge to the student from the DVA for overpayment of benefits. For more information on veterans benefits, please visit the financial aid web page at www.lvc.edu/military.

Transfer Credit

A maximum of 9 credits (a maximum of 6 core credits) may be transferred from another graduate program with the approval of the registrar and the appropriate program director. No transfer credit shall be accepted if the grade earned at another institution was less than B (a grade of B- or lower will not be accepted). Students wishing to transfer credits may be asked to submit course outline, textbook used, and any reading materials, so proper credit may be given. No graduate transfer credit is accepted in the DPT program.

Concurrent Courses

A student enrolled for a graduate degree may not take courses concurrently at another educational institution without prior consent of the program director and the registrar.

Grading

Student work is graded A, A–, B+, B, B–, C+, C, and F. Candidates must maintain a grade point average of 3.00 with a maximum of two C grades in the program.

In addition, the symbols I, IP, and W are used. I indicates that the work is incomplete (certain required work postponed by the student for substantial reason with the prior consent of the instructor) but otherwise satisfactory. This work must be completed within the first four weeks of the end of the course or the I will be converted to an F. Instructors may set an earlier deadline. Appeals for an extension of the incomplete grade past the four-week period must be presented to the program director prior to the incomplete due date. IP (in progress) is a temporary grade for certain courses that have not concluded by the end of the semester. W indicates withdrawal from a course through the tenth week of full-semester classes (or up to the first two-thirds of course meeting during the summer or for an abbreviated period during fall and spring semesters).

MSE 830, MME 805/806, and some PHT courses (see Doctor of Physical Therapy section) are graded pass/fail.

Review Procedure

Every student's academic progress shall be reviewed at the end of each academic period by the program director. Any student whose average falls below 3.00 or who earns a C or F in three or more credit hours may be placed on academic probation. A student on academic probation may be required to retake courses or correct other academic deficiencies and must achieve a 3.00 cumulative average within two semesters of being placed on probation. A student may repeat a maximum of two graduate courses with any given course being repeated only once. Students who fail to correct deficiencies may be permanently suspended from the program. A student may appeal any decision to the vice president of academic affairs and dean of the faculty.

Course Withdrawal and Tuition Refund

Any MBA, MME, or MSE student who withdraws from courses for which he or she is registered must notify the Graduate & Professional Studies Office. The effective date of withdrawal is the date on which the student notifies the office. Failure to give notice of withdrawal will result in a grade of F. Notifying the instructor does not constitute official withdrawal. A refund schedule based on official withdrawal date is available on the business office web page. Part-time students receiving federal financial assistance (Title IV) will receive a refund according to federal policy as noted above.

Students may drop a course with no penalty during the first week of classes of a full fall or spring term or, for courses meeting during the summer or for an abbreviated period, prior to the second meeting of the course. There will be no tuition due for a course dropped during this period and any tuition paid for the course will be refunded in full. The course will not appear on the student's academic transcript.

Students may withdraw a course after this period up to the first two-thirds of the course. In such cases, a "W" will be noted on the academic transcript in place of a grade and tuition will be refunded according to the College's Tuition Refund Schedule.

Maintaining Active Admission Status (MBA Students)

Any MBA student who does not enroll in classes in two consecutive sessions following their admission to the program will be changed to inactive status. Students not enrolling in any class within one (1) year will be changed from inactive status to withdrawn. Once withdrawn, they will need to reapply for admission to the MBA Program and will be subject to the admission criteria, MBA curriculum, and degree requirements in place at the time of their readmission.

Time Restriction

The maximum time for completion of a graduate program is seven years from the date of the admission letter. Students who have not earned the graduate degree during this period shall have their academic standing reviewed and may be asked to meet additional requirements in order to graduate.

Academic Honesty

Students are expected to uphold the principles of academic honesty. Academic dishonesty will not be tolerated. For the first academic dishonesty offense, failure in the course is mandatory, and the faculty member is required to inform the program director/coordinator in writing. A letter of warning shall be sent to the student by the program director/coordinator explaining the consequences and the right of appeal. For the second offense, failure in the course and expulsion from the graduate program and College are mandatory.

Privacy of Student Records

In accordance with the Family Educational Rights and Privacy Act of 1974 (P.L. 39–380) Lebanon Valley College releases no student education records without written consent and request of the student or as prescribed by the law. Each student has access to his or her education records with exclusions only as specified by the law.

Financial Aid

Students may participate in the Stafford Loan Program. Graduate students may check online for more information at www.lvc.edu/financial-aid/part-time.aspx or contact the Financial Aid Office at 717-867-6126 to discuss financial aid eligibility.

Employee Tuition Reimbursement

Students are encouraged to inquire about tuition reimbursement programs at their places of employment. Students who participate in an employer reimbursement program may be eligible for the deferred tuition option. Some employers authorize the College to bill them directly. In this case, students must present billing authorization when they register. Information on direct bill and deferred tuition options can be found on the Graduate & Professional Studies web pages.

Withdrawal from Program and College and Readmission

To withdraw from a graduate program at Lebanon Valley College, a graduate student must submit a written request to the program director. Once withdrawn, a graduate student must apply for readmission to a program in order to return and will be subject to the admission criteria, curriculum and degree requirements in place at the time of their readmission.

MASTER OF BUSINESS ADMINISTRATION

The MBA Program at Lebanon Valley College includes standard MBA-level courses along with exposure to courses in executive communications and ethical leadership.

MBA Admissions

Candidates for admission must have a bachelor's degree from an accredited college or university as well as the interest, aptitude, and ability to undertake graduate studies. All candidates must provide official transcripts of undergraduate and graduate work, a completed application, and a current résumé. Most applicants have at least three years of substantial business or professional experience and have either achieved an undergraduate GPA of at least 3.0 or completed advanced degrees at the master's or doctoral level. Those applicants who have achieved an undergraduate GPA below 3.0 may be asked to submit a GMAT score for a more complete evaluation. All candidates must schedule a personal interview with the director of the MBA Program.

Graduate admission is on a rolling basis; action usually will be taken within two weeks of receipt of all required documentation. Qualified candidates may register for up to two graduate classes while completing the application process. The MBA Program at LVC is a part-time program for working adults. A maximum of six credits may be taken concurrently.

Graduation Requirements

A candidate for the MBA degree must complete a minimum of 36 credits, of which 27 must be earned at Lebanon Valley College. There are nine required core courses (27 credits) and three electives of the student's choice (9 credits) for a total of 36 credits. A candidate must achieve at least a 3.00 cumulative average with a maximum of two C's within the 36 graduate credits to be certified for graduation.

Prerequisites

Prospective students must demonstrate that they have command of the undergraduate common body of knowledge, including finance, accounting, economics, marketing, management, business law and ethics, and business statistics. A working knowledge of Microsoft Word, Excel, and PowerPoint is strongly recommended. A waiver for knowledge gained through life experience may be granted at the discretion of the program director. Prerequisites can be satisfied by the completion of the appropriate undergraduate courses or the completion of the necessary courses offered as part of the post-baccalaureate certificate in business administration (see page 105 for additional details).

Program Goals

Master of Business Administration graduates will:

- Demonstrate functional business knowledge in a global environment. (Business Knowledge/Global Perspective).
- Evaluate ethical situations and make effective leadership decisions, considering the global context where appropriate. (Ethical Leadership).

- Use effective written and oral forms of communication, work successfully as a team member, and demonstrate an understanding of collaboration fostered by leadership. (Communication Skills)
- Apply analytical and quantitative skills for decision-making, considering global issues when appropriate. (Analytical/Quantitative Skills)
- Evaluate, synthesize, and critically analyze qualitative information and quantitative data to make strategically aligned decisions in a global environment. (Critical and Strategic Thinking)

Degree Requirements

Degree: Master of Business Administration.

Graduate Core: MBA 805, 810, 815, 832, 833, 840, 845, 875, 895 (24 credits); three additional MBA electives (9 credits). Total of 36 credits.

Healthcare Management Concentration: HCM 801, 802; MBA 803, 804 805, 810, 815, 832, 885, 895 (30 credits); one from MBA 825, 833, 860 (3 credits); and one additional MBA or HCM elective (3 credits). Total of 36 credits.

Master of Business Administration Courses

MBA 803. The Economics and Financing of Healthcare. 3 credits.
MBA 804. Healthcare Operations Management. 3 credits.
MBA 805. Financial Policy. 3 credits.
MBA 807. Innovation. 3 credits.
MBA 810. Organizational Behavior. 3 credits.
MBA 815. Marketing Management. 3 credits.
MBA 816. Internet Marketing. 3 credits.
MBA 817. Business and Technology. 3 credits.
MBA 825. Executive Communications. 3 credits.
MBA 827. Project Management. 3 credits.
MBA 832. Management Information Systems. 3 credits.
MBA 833. Managerial Economics. 3 credits.
MBA 840. Business Analytics. 3 credits.
MBA 845. Managing Operations and Business Processes. 3 credits.
MBA 847. Sales Management. 3 credits.
MBA 850. Human Resource Management. 3 credits.
MBA 857. Supply Chain Management. 3 credits.
MBA 860. International Business Management. 3 credits.
MBA 865. Entrepreneurship. 3 credits.
MBA 870. Labor Management Relations. 3 credits.
MBA 875. Accounting for Managerial Decision Making. 3 credits.
MBA 880. Investments and Portfolio Management. 3 credits.
MBA 885. Ethical Leadership. 3 credits.
MBA 890. Special Topics in Business Administration. 3 credits.
MBA 895. Strategic Management. 3 credits.

Healthcare Management Administration Courses

HCM 801. Introduction to Healthcare Management. 3 credits.

HCM 802. Ethical, Legal, and Regulatory Issues in Healthcare. 3 credits.

HCM 890. Special Topics: Current Issues in Healthcare Management. 3 credits.

For additional information about this program, including faculty and full course descriptions, please visit www.lvc.edu/mba.

MASTER OF MUSIC EDUCATION

The mission of the Master of Music Education Program at Lebanon Valley College is to provide music educators at all grade levels with contextual understanding and pedagogical strategies through quality graduate-level courses that are grounded in the latest state and national standards and relevant research-based methods. It is a summer only program in which a student can, with careful advising, complete the coursework in four summers and continue work on the capstone experience (Thesis Track only) throughout the academic year.

MME Admissions

While prior teaching experience is not a requirement for entrance into this degree program, individuals considering pursuit of a master's degree in music education should plan on teaching one to three years prior to initial enrollment or before completing the degree. It is the conviction of this faculty that graduate study will be more meaningful to the individual if he or she has first gained experience in the field.

All candidates must have a bachelor's degree in music from a regionally accredited college or university and submit an official transcript with the application. Any graduate courses to be considered for transfer (up to nine (9) credits, a maximum of six (6) credits in the core) also require an official transcript sent by the respective colleges or universities to the Office of Graduate & Professional Studies. Priority for core courses will be given to students matriculated into the MME Program.

All candidates must submit the application form and required application fee with a current résumé and one-page personal written statement indicating why they wish to pursue this degree All candidates must submit a copy of a current teaching certificate in music with the application.

All candidates must submit three (3) letters of recommendation with the application, which address the candidate's readiness for graduate study.

All candidates must submit a one-page letter of intent indicating which track they wish to pursue (Thesis Track at 30 hours or Non-thesis Track at 36 hours).

Graduate admissions are on a rolling basis; action will be taken promptly after all paperwork has been received and evaluated.

Program Goals

Master of Music Education graduates will:

- Demonstrate an understanding of theories of music learning, including current trends in cognitive research, implications of social/collaborative and music technologies for learners, and non-traditional and non-Western modes of music instruction. (Music Learning/Cognitive Development)
- Demonstrate familiarity with educational research methodologies and fluency in reading, applying, and disseminating research in music education. (Analytical/Quantitative Skills)
- Articulate a comprehensive philosophy of music education grounded in an understanding of both historical perspectives and current trends in the profession. (Philosophical/Historical Foundations)
- Articulate and implement new insights into reaching diverse student groups and providing a global perspective through music education. (Diversity)
- Demonstrate an awareness of how current and innovative teaching methods, materials, and technologies can be integrated into a PreK–12 curriculum grounded in national and state standards. (Curriculum/National and State Standards)

Degree Requirements

Degree: Master of Music Education

Thesis Track: Candidates must complete 30 graduate credits, 21 of which must be earned at Lebanon Valley College. There are four required core courses: MME 801, 802, 803, 804 (12 credits). The capstone experience includes either a project (MME 805) or a thesis (MME 806) (3 credits). The other 15 credits will be selected from among numerous elective opportunities.

Non-thesis Track: Candidates must complete 36 graduate credits, 27 of which must be earned at Lebanon Valley College. There are five required core courses: MME 801, 802, 803, 804, 807 (15 credits). The other 21 credits will be selected from among numerous elective opportunities.

Courses in the Lebanon Valley College MME Program are taught on the Annville campus.

Master of Music Education Courses

MME 801. Foundations of Music Education. 3 credits.
MME 802. Research Methods in Music Education. 3 credits.
MME 803. Technology for Music Educators. 3 credits.
MME 804. Psychology of Music Learning. 3 credits.
MME 805. Project. 1-3 credits.
MME 806. Thesis. 1-3 credits.
MME 807. Interpreting and Using Research in Music Education. 3 credits.
MME 830. Private Applied. 1 credit.
MME 840. Private Applied. 2 credits.
MME 890. Special Topics. 3 credits.

For additional information about this program, including faculty and full course descriptions, please visit www.lvc.edu/mme.

MASTER OF SCIENCE EDUCATION

Students enrolled in this program will concentrate on the principles and content of science as well as on the appropriate teaching strategies to convey these concepts to their students. The courses are designed to maximize the opportunity for using hands-on, minds-on science processing skills needed by students in the 21st century. This learning environment helps MSE students to prepare their own students for success on all forms of state and national science assessments. The program will culminate with the satisfactory completion of a research project in science education.

MSE Admissions

To qualify for admission to the Master of Science Education Program, the applicant must fulfill the following requirements:

- An applicant must hold a baccalaureate degree from a regionally accredited institution and must arrange to have official transcripts submitted for each undergraduate institution attended. If transfer credits are to be considered, transcripts from graduate courses must also be requested by the applicant.
- An applicant should hold a valid teaching certificate. Otherwise, applicants may be considered for entrance after meeting with the MSE director.
- An applicant must have achieved a 3.0 quality point average (QPA) on a four point scale for the baccalaureate degree. An applicant with less than the 3.0 QPA may be admitted with provisional status pending satisfactory completion of six semester hours of graduate study with a 3.0 or above.
- An applicant must submit three letters of recommendation in support of their admission to the graduate program.
- An applicant must submit a personal statement that addresses their career goals and reason for pursuing a graduate degree in science education.

Program Goals

Master of Science Education graduates will:

- Identify the major concepts and competencies of the core science content areas (biology, earth science, chemistry, and physics).
- Integrate science content in K-12 classrooms that is aligned with PA state science standards and anchors, as well as current national science standards.
- Develop curriculum that utilizes quality science pedagogy, including inquiry and experiential science teaching methods.
- Create effective and equitable assessment instruments for the purpose of analyzing student learning and driving instruction of students in K-12 classrooms.
- Utilize appropriate technology tools to find, interpret, and/or engage in current educational research describing best practices and exemplary models of instruction for science students of varying abilities and developmental stages.
- Employ effective oral and written communication skills.
- Utilize appropriate technology to collaborate and communicate effectively with a community of learners, including scientists, science educators, and expert science teachers.

Degree Requirements

A candidate for the MSE degree must complete a minimum of 30 credits, of which 21 must be earned at Lebanon Valley College. Only 6 credits may be transferred into the core. A candidate must achieve at least a 3.00 cumulative average to be certified for graduation.

Degree: Master of Science Education.

Graduate Core: MSE 800; two courses from MSE 801, 802, 803, and 805; MSE 811, 813, 829; 3 credits of MSE 830 or 832; and three MSE electives. Total of 30 credits.

STEM Concentration: Students may opt to complete a STEM concentration by completing the following courses in place of the three electives: MSE 880, 881, 882.

Master of Science Education Courses

MSE 800. Introduction to Science Education in the Classroom. 3 credits.
MSE 801. Principles of Biology and Life Science. 3 credits.
MSE 802. Principles of Chemistry. 3 credits.
MSE 803. Principles of Physics and Physical Science. 3 credits.
MSE 805. Principles of Earth and Space Science. 3 credits.
MSE 811. Curriculum Design. 3 credits.
MSE 813. Literacy in the Science Classroom. 3 credits.
MSE 820. Seminar. 1-3 credits.
MSE 821. STEM Business Tours To the Classroom. 3 credits.
MSE 822. Forensic Science To the Classroom. 3 credits.
MSE 823. Waterways: Water Chemistry, Biology, Environment, and Safety. 3 credits.
MSE 824. Emerging Internet Technology. 3 credits.
MSE 825. Meeting the Needs of the Exceptional Learner in the Science Classroom. 3 credits.
MSE 826. Watersheds and Wetlands: Citizen Science Inquiry and the Atlantic Horseshoe Crab. 3 credits.
MSE 827. Applying Wildlife and Natural Resources To the Classroom. 3 credits.
MSE 829. Research Methods and Statistics. 3 credits.
MSE 830. Independent Research in Science Education: Thesis. 1-3 credits.
MSE 832. Independent Research in Science Education: Project. 1-3 credits.
MSE 850. Independent Study. 1-6 credits.
MSE 880. Introduction to STEM Education. 3 credits.
MSE 881. STEM Education Systemic Reform. 3 credits.
MSE 882. STEM Integrative Curriculum Design. 3 credits.

For additional information about this program, including faculty and full course descriptions, please visit www.lvc.edu/mse.

DOCTOR OF PHYSICAL THERAPY

The Physical Therapy Program consists of a six-year program of study leading to a Doctor of Physical Therapy (D.P.T.) degree. Students at Lebanon Valley College receive a baccalaureate degree in health science after successful completion of four years of coursework. See Health Science Program information on page 93.

The program consists of two distinct phases: pre-professional education (three years, or approximately 95 semester credit hours); and professional education (three years, approximately 115 semester credit hours).

Lebanon Valley College's Doctor of Physical Therapy Degree Program is accredited by the Commission on Accreditation in Physical Therapy Education.

Program Goals

Doctor of Physical Therapy graduates will:

- Possess broad-based skills and knowledge necessary for effective implementation of the patient/client management model across a variety of contexts.
- Be proactive and professionally responsive to meet current and future societal health care needs and promote the profession of physical therapy.
- Possess the critical thinking skills needed to promote self-directed learning and evidence-based practice common to a doctoring profession.
- Be guided in their decision making processes using the core values of the physical therapy profession.
- Recognize the value of contributing to society through education and community service.

Degree Requirements

Degree: Doctor of Physical Therapy.

Prerequisites: two semesters each of general biology, chemistry, and physics; one semester upper level human anatomy and physiology, introductory psychology and sociology, and elementary statistics.

Professional required courses: PHT 412, 502, 504, 511, 514, 516, 518, 520, 532, 534, 542, 551, 716, 720, 726, 728, 730, 732, 736, 738, 740, 752, 760, 762, 764, 802, 830, 832, 834, 836, 850, 860.

Professional Phase Program Requirements: Students enrolled in professional phase courses must maintain a GPA of 3.0 in the professional phase. Any student whose cumulative professional phase GPA falls below 3.0 will be placed on academic probation. Students with deficient GPAs have two academic semesters to remediate their GPA to 3.0. After re-establishing the minimum 3.0 GPA, the student must maintain a minimum cumulative 3.0 GPA each subsequent semester for the remainder of the professional phase of the program. If the student does not maintain a minimum cumulative 3.0 GPA in any subsequent semester, the student will be dismissed from the program. Students must have remediated and achieved the minimal 3.0 GPA requirements prior to the final clinical education experience.

A minimum final grade of 'C' (> 73%) is required for all professional phase courses. A final course grade less than a 'C' (< 73%) does not meet professional standards and will result in the student being removed from the professional phase of the program. Reentry into the program is possible only after successful completion of a remediation plan. A grade of 'C' (< 73%) in any two courses will result in dismissal from the program without option for re-entry.

Physical Therapy Courses

PHT 716. Health Promotion for Self and Society. 3 credits.
PHT 720. Neuroscience. 4 credits.
PHT 726. Clinical Interventions I. 4 credits.
PHT 728. Musculoskeletal I. 4 credits.
PHT 730. Clinical Interventions II. 4 credits.
PHT 732. Musculoskeletal II. 3 credits.
PHT 736. Neuromuscular Physical Therapy I. 4 credits.
PHT 738. Geriatrics Physical Therapy. 3 credits.
PHT 740. Prosthetics and Orthotics. 2 credits.
PHT 752. Evidence Based-Critical Inquiry in Practice. 2 credits.
PHT 760. Clinical Education I. 3 credits.
PHT 762. Clinical Education II. 3 credits.
PHT 764. Clinical Education III. 3 credits.
PHT 795. Student Run Free Clinic III. 0 credits.
PHT 796. Student Run Free Clinic IV. 0 credits.
PHT 802. Physical Therapy Administration and Management. 4 credits.
PHT 830. Neuromuscular PT II. 4 credits.
PHT 832. Pediatric Physical Therapy. 4 credits.
PHT 834. Selected P.T. Practice Topics. 2 credits.
PHT 836. Differential Diagnosis. 3 credits.
PHT 850. Critical Inquiry Capstone. 2 credits.
PHT 860. Clinical Education IV. 12 credits.
PHT 895. Student Run Free Clinic V. 0 credits.

For additional information about this program, including faculty and full course descriptions, please visit www.lvc.edu/physical-therapy.

INDEX

Academic Calendar 124–125
Academic honesty policy
undergraduate 27
graduate 112
Academic procedures
undergraduate 12
graduate 109
Accounting program 54
Accreditation 3
Actuarial science program 86
Admissions
undergraduate full time 6
undergraduate part time 6
professional studies 6
MBA 113
MME 115
MSE 117
DPT 119
Advanced placement 21
American studies program 47
Art & art history program 48
Attendance policy 17
Auditing policy 16
Baccalaureate degrees 12
Biochemistry &
molecular biology program 52
Biology program 50
Business administration program 56
Calendar 124–125
Certification programs 105
Credential programs 108
Challenge examinations 21
Chemistry program 60
CLEP 21
Communications concentration 63, 72
Computer science program 87
Concurrent courses 16
Cooperative programs 39
Courses, undergraduate
concurrent 16
repetition of 16
Courses, graduate 114–118
Credit for life experience 22
Criminal justice program 102
Degrees
undergraduate 12
graduate 109
Dean's list 24
Departmental honors 24
Digital communications program 62
Doctor of physical therapy program 119
Early childhood education 68
Economics program 54
Education program 65
Engineering cooperative program 39
English program 71
External summer courses 17
Finances, student 7
French program 81
General education program 32
German program 82
Global studies program 76
Grade point average 22
Grading system 22
Graduate programs 109
academic policies 109
concurrent courses 110
financial aid 112
grading system 110
privacy of student records 112
refund policy 111
review procedure 111
time restriction policy 111
transfer credit policy 110
veterans' registration 109
withdrawal policy 111–112

Graduation honors....24
Graduation requirements
DPT....119
MBA....113
MME....116
MSE....118
undergraduate....13
Greek Courses....84
Health care management program requirements....59
Health science program....93
Historical communications program....75
History program....74
Honors
departmental....24
graduation....24
In-absentia....18
Independent study....45
International baccalaureate program....22
International study opportunities....45
Internship policy....44
Italian courses....82
Languages program....80
Law and society minor....79
Leave of absence....18
Limit of hours....14
Mathematical sciences program....84
MBA program....113
Medical technology cooperative program....39
Mission statement....3
MME program....115
MSE program....117
Multidisciplinary courses....38
Music business program....91
Music education program....91
Music program....88
Music recording technology program....92
Nontraditional credit policy....20
Off-campus programs
study (Center for Global Education)....45
Pass/fail policy....16
Payment plans....10
Phi Alpha Epsilon....25
Philosophy program....99
Physical therapy program....93, 119
Physics program....94
Politics program....78
Post-baccalaureate certificate programs....105
Pre-law program....40
Pre-medical, pre-dentistry, pre-veterinary programs....41
Privacy of student records....12
Probation, undergraduate....29
Profile of the College....2
Psychobiology program....53
Psychology program....96
Readmission policy....19
Refund policy
undergraduate....7
graduate....111
Registration....15
Religion program....99
Repetition of courses
undergraduate....16
Sanskrit courses....102
Satisfactory academic progress....14
Second bachelor's degree....20
Secondary education program....69
Self-designed major....43
Servicemembers Opportunity Colleges (SOC)....11
Sociology program....102
Spanish program....83
Special education certification program....70
Special Education PreK–Grade 8....70
Special topics courses....45
Study (Center for Global Education)....45
Suspension policy
undergraduate....29

Teacher certification
matriculated students 65
Transfer policy
undergraduate 14
graduate 110
Tutorial study courses 45
Veterans' services 11, 109
Withdrawal procedure
undergraduate 19
graduate 111

2014–2015 ACADEMIC CALENDAR

First Semester

August	21	Thursday, 8 a.m.	Residence halls open for new students
	21	Thursday, 1:30 p.m.	Opening Convocation
	23	Saturday, 8 a.m.	Residence halls open for returning students
	25	**Monday, 8 a.m.**	**Classes begin**
	25	Monday, 8 a.m.	Add/Drop period begins
	29	**Friday, 4:30 p.m.**	**Add/Drop period ends. Last day to drop course without a grade of "W"**
September	1	Monday	Labor Day; **classes are in session**
October	3	Friday, 5 p.m.	Fall break begins
	8	Wednesday, 8 a.m.	Classes resume
	10–12	**Friday–Sunday**	**Homecoming/Family Weekend**
	15	Wednesday, noon	Mid-term grades due
	31	**Friday, a.m.**	**Spring 2015 registration begins**
	31	**Friday, 4:30 p.m.**	**Last day to change fall registration or withdraw from a course**
November	**7**	**Friday, a.m.**	**Spring 2015 registration ends**
	26	Wednesday, noon	Thanksgiving vacation begins
December	1	Monday, 8 a.m.	Classes resume
	5	**Friday, 4:30 p.m.**	**Last day for first-semester freshmen to withdraw from a course**
	5	**Friday, 5 p.m.**	**Classes end**
	6	Saturday	Reading Day
	7	Sunday	Reading Day
	8–13	**Monday–Saturday**	**Final examinations**
	13	Saturday, 5 p.m.	Semester ends; residence halls close
	17	**Wednesday, noon**	**Final grades due**

2014–2015 ACADEMIC CALENDAR

Second Semester

January	11	Sunday, noon	Residence halls open for students
	12	**Monday, 8 a.m.**	**Classes begin**
	12	Monday, 8 a.m.	Add/Drop period begins
	16	**Friday, 4:30 p.m.**	**Add/Drop period ends. Last day to drop a course without a grade of "W"**
	19	Monday	Martin Luther King Jr. Day; **classes are in session**
February	27	Friday, 5 p.m.	Spring vacation begins
March	9	Monday, 8 a.m.	Classes resume
	18	Wednesday, noon	Mid-term grades due
	27	**Friday, 4:30 p.m.**	**Last day to change registration or withdraw from a course**
April	2	Thursday, 5 p.m.	Easter break begins
	7	Tuesday, 8 a.m.	Classes resume
	10	**Friday, a.m.**	**Fall 2015 registration begins**
	17	**Friday, p.m.**	**Fall 2015 registration ends**
	22	Wednesday, 4:30 p.m.	Graduation plans due for students graduating in May, August, and December 2016
	29	**Wednesday, 4:30 p.m.**	**Last day for first-semester freshmen to withdraw from a course**
	29	**Wednesday, 5 p.m.**	**Day classes end**
	30	Thursday	Reading Day; **evening classes meet/end**
May	**1-2**	**Friday and Saturday**	**Final examinations**
	3	Sunday	Reading Day
	4–7	**Monday–Thursday**	**Final examinations**
	7	Thursday, 5 p.m.	Semester ends
	8	**Friday, noon**	**Senior grades due**
	TBD	TBD	Baccalaureate Service
	9	**Saturday, TBD**	**146th Commencement**
	9	Saturday	Residence halls close
	15	**Friday, noon**	**Final grades due**

Lebanon Valley College®

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